

Liquiphant S FTL70

Point level switch, vibronic.
Application: liquids + high
process temperature.
:: Liquid independent.
Short fork.
:: Suitable on narrow mount. condition.
Integrated gastight feedthrough.
:: Highest safety under high pressure.

FTL70-
52008808
SPK: FQA



Liquiphant S FTL70

Approval:

- A Non-hazardous area
- D Non-hazardous area, WHG
- B ATEX/NEPSI II 3G EEx nC II T6, WHG
- C ATEX/NEPSI II 3G EEx nA II T6, WHG
- F ATEX II 1/2GD Ex ia IIC T6, WHG/IECEEx zone0/1
- L ATEX II 1/2G EEx d IIC T6, WHG/IECEEx zone0/1
- E ATEX II 1/2G EEx de IIC T6, WHG/IECEEx zone0/1
- P FM IS Cl.I,II,III Div.1 Gr.A-G, zone 0,1,2,20,21,22
- Q FM XP Cl.I,II,III Div.1 Gr.A-G, zone 1,2,21,22
- R FM NI Cl.I Div.2 Gr.A-D, zone 2
- U CSA General Purpose
- S CSA IS Cl I,II,III Div.1 Gr.A-G, zone 0,1,2
- T CSA XP Cl I,II,III Div.1 Gr.A-G, zone 1,2
- V TIIS Ex ia IIC T2
- W TIIS Ex d IIC T2
- M NEPSI Ex ia IIC T6
- N NEPSI Ex d IIC T6
- Y Special version, TSP-no. to be spec.

Process Connection:

- GQ2 Thread ISO228 G3/4, 316L
- GQ5 Thread ISO228 G3/4, AlloyC4
- GQ6 Thread ISO228 G3/4, AlloyC22
- GR2 Thread ISO228 G1, 316L
- GR5 Thread ISO228 G1, AlloyC4
- GR6 Thread ISO228 G1, AlloyC22
- GE2 Thread EN10226 R3/4, 316L
- GE5 Thread EN10226 R3/4, AlloyC4
- GE6 Thread EN10226 R3/4, AlloyC22
- GF2 Thread EN10226 R1, 316L
- GF5 Thread EN10226 R1, AlloyC4
- GF6 Thread EN10226 R1, AlloyC22
- GM2 Thread ANSI NPT3/4, 316L
- GM5 Thread ANSI NPT3/4, AlloyC4
- GM6 Thread ANSI NPT3/4, AlloyC22
- GN2 Thread ANSI NPT1, 316L
- GN5 Thread ANSI NPT1, AlloyC4
- GN6 Thread ANSI NPT1, AlloyC22
- B82 DN25 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
- C82 DN25 PN25/40 B1, 316L flange EN1092-1 (DIN2527 C)
- C85 DN25 PN25/40, AlloyC4 >1.4462 flange EN1092-1 (DIN2527)
- C86 DN25 PN25/40 B1, AlloyC22 >1.4462 flange EN1092-1 (DIN2527)
- D82 DN25 PN40 B1, 316L flange EN1092-1 (DIN2526 D)
- BB2 DN32 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
- BD2 DN40 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
- CF2 DN50 PN10/16 B1, 316L flange EN1092-1 (DIN2527 C)
- BG2 DN50 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
- CG2 DN50 PN25/40 B1, 316L flange EN1092-1 (DIN2527 C)
- DG2 DN50 PN40 B1, 316L flange EN1092-1 (DIN2526 D)
- CG5 DN50 PN25/40, AlloyC4 >1.4462 flange EN1092-1 (DIN2527)
- CG6 DN50 PN25/40 B1, AlloyC22 >1.4462 flange EN1092-1 (DIN2527)
- B12 DN50 PN63 A, 316L flange EN1092-1 (DIN2527 B)
- C12 DN50 PN63 B2, 316L flange EN1092-1 (DIN2527 E)

CI5 DN50 PN63, AlloyC4 >1.4462 flange EN1092-1 (DIN2527)
 CI6 DN50 PN63 B1, AlloyC22 >1.4462 flange EN1092-1 (DIN2527)
 BJ2 DN50 PN100 A, 316L flange EN1092-1
 CJ2 DN50 PN100 B2, 316L flange EN1092-1
 BK2 DN65 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
 CM2 DN80 PN10/16 B1, 316L flange EN1092-1 (DIN2527 C)
 BN2 DN80 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
 CN2 DN80 PN25/40 B1, 316L flange EN1092-1 (DIN2527 C)
 DN2 DN80 PN40 B1, 316L flange EN1092-1 (DIN2526 D)
 CN5 DN80 PN25/40, AlloyC4 >1.4462 flange EN1092-1 (DIN2527)
 CN6 DN80 PN25/40 B1, AlloyC22 >1.4462 flange EN1092-1 (DIN2527)
 B02 DN80 PN63 A, 316Ti flange EN1092-1 (DIN2527 B)
 C02 DN80 PN63 B2, 316L flange EN1092-1 (DIN2527 E)
 C05 DN80 PN63, AlloyC4 >1.4462 flange EN1092-1 (DIN2527)
 C06 DN80 PN63 B1, AlloyC22 >1.4462 flange EN1092-1 (DIN2527)
 B12 DN80 PN100 A, 316L flange EN1092-1
 C12 DN80 PN100 B2, 316L flange EN1092-1
 CQ2 DN100 PN10/16 B1, 316L flange EN1092-1 (DIN2527 C)
 BR2 DN100 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
 BU2 DN100 PN63 A, 316L flange EN1092-1 (DIN2527 B)
 CU2 DN100 PN63 B2, 316L flange EN1092-1 (DIN2527 E)
 CU5 DN100 PN63, AlloyC4 >1.4462 flange EN1092-1 (DIN2527)
 CU6 DN100 PN63 B1, AlloyC22 >1.4462 flange EN1092-1 (DIN2527)
 A82 1" 150lbs RF, 316/316L flange ANSI B16.5
 AB2 1-1/4" 300lbs RF, 316/316L flange ANSI B16.5
 AC2 1-1/2" 150lbs RF, 316/316L flange ANSI B16.5
 AD2 1-1/2" 300lbs RF, 316/316L flange ANSI B16.5
 AE2 2" 150lbs RF, 316/316L flange ANSI B16.5
 AE5 2" 150lbs, AlloyC4 >1.4462 flange ANSI B16.5
 AE6 2" 150lbs RF, AlloyC22 >1.4462 flange ANSI B16.5
 AF2 2" 300lbs RF, 316/316L flange ANSI B16.5
 AF5 2" 300lbs, AlloyC4 >1.4462 flange ANSI B16.5
 AF6 2" 300lbs RF, AlloyC22 >1.4462 flange ANSI B16.5
 AG2 2" 600lbs RF, 316/316L flange ANSI B16.5
 AG5 2" 600lbs, AlloyC4 >1.4462 flange ANSI B16.5
 AG6 2" 600lbs RF, AlloyC22 >1.4462 flange ANSI B16.5
 AL2 3" 150lbs RF, 316/316L flange ANSI B16.5
 AM2 3" 300lbs RF, 316/316L flange ANSI B16.5
 AN2 3" 600lbs RF, 316/316L flange ANSI B16.5
 AN5 3" 600lbs, AlloyC4 >1.4462 flange ANSI B16.5
 AN6 3" 600lbs RF, AlloyC22 >1.4462 flange ANSI B16.5
 AP2 4" 150lbs RF, 316/316L flange ANSI B16.5
 AQ2 4" 300lbs RF, 316/316L flange ANSI B16.5
 AR2 4" 600lbs RF, 316/316L flange ANSI B16.5
 KF2 20K 50A RF, 316L flange JIS B2220
 KF5 20K 50A RF, AlloyC4 >316L flange JIS B2220
 KF6 20K 50A RF, AlloyC22 >1.4462 flange JIS B2220
 YY9 Special version, TSP-no. to be spec.

Probe Length:

AB Compact version Ra<3.2um/126uin, 316L, Fork: 318L
 AE Compact version Ra<3.2um/126uin, Alloy
 YY Special version, TSP-no. to be spec.

Electronics; Output:

A FEL50A; PROFIBUS PA
 1 FEL51; SIL 2-wire 19-253VAC
 2 FEL52; SIL 3-wire PNP 10-55VDC
 4 FEL54;SIL relay DPDT 19-253VAC/19-55VDC
 5 FEL55; SIL 8/16mA, 11-36VDC
 6 FEL56; SIL NAMUR (L-H signal)
 7 FEL57; SIL 2-wire PFM
 8 FEL58;SIL NAMUR+test button (H-L signal)
 9 Special version, TSP-no. to be spec.

Housing; Cable Entry:

G4 F16 Polyester IP66; gland M20

- F4 F16 Polyester IP66; thread G1/2
- E4 F16 Polyester NEMA4X; thread NPT1/2
- N4 F16 Polyester IP66; plug M12
- G5 F17 Alu IP66; gland M20
- F5 F17 Alu IP66; thread G1/2
- E5 F17 Alu NEMA4X; thread NPT3/4
- N5 F17 Alu IP66; plug M12
- G8 F13 Alu IP68; M20 suitable for EEx d/XP
- F8 F13 Alu IP68; thread G1/2, Suitable for EEx d/XP
- E8 F13 Alu NEMA4X; thread NPT3/4 Suitable for EEx d/XP
- G7 T13 Alu, coated IP66; gland M20, Separate conn. compartment (EEx d > thread M20)
- F7 T13 Alu, coated IP66; thread G1/2, Separate conn. compartment
- E7 T13 Alu, coated IP66; thread NPT3/4, Separate conn. compartment
- G1 F27 316L IP68; gland M20, precision casting, (EEx d > thread M20)
- F1 F27, 316L IP68; thread G1/2, precision casting
- E1 F27 316L NEMA6P; thread NPT3/4, precision casting
- Y9 Special version, TSP-no. to be spec.

Additional Option:

- A Basic version
- C EN10204-3.1 material (wetted parts) inspection certificate
- D EN10204-3.1 AD2000 material wetted parts, excepting castings inspection certificate
- N EN10204-3.1 material, NACE MR0175 (wetted parts) inspection certificate
- S GL/ABS marine certificate
- Y Special version, TSP-no. to be spec.

Application:

- L 230oC/450oF, gas-tight feed through
- N 280oC/540oF, gas-tight feed through
- Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.

Liquiphant M FTL50H

Measurement: Point Level/Density,
Vibronic.

Food + Life Sciences.

Polished surface.

Application: liquids.

Point Level:

:: Millimeter precision switch point.

:: Application safety:

independent of liquid attribute.

independent of built up.

Density:

Continuous measurement.

:: Measure directly in the tank / pipe.

Liquiphant M FTL50H

Approval:

- A Non-hazardous area
- D Non-hazardous area, WHG
- B ATEX/NEPSI II 3G EEx nC IIC T6, WHG
- C ATEX/NEPSI II 3G EEx nA II T6, WHG
- G ATEX II 1/2GD Ex ia IIC T6/IECEEx zone0/1
- F ATEX II 1/2GD Ex ia IIC T6, WHG/IECEEx zone0/1
- H ATEX II 1G Ex ia IIC T6
- J ATEX II 1G Ex ia IIC T6, WHG
- K ATEX II 1/2G EEx d IIC T6/IECEEx zone0/1
- L ATEX II 1/2G EEx d IIC T6, WHG
- I ATEX II 1/2G EEx de IIC T6/IECEEx zone0/1
- E ATEX II 1/2G EEx de IIC T6, WHG
- P FM IS Cl.I,II,III Div.1 Gr.A-G, zone 0,1,2,20,21,22
- Q FM XP Cl.I,II,III Div.1 Gr.A-G, zone 1,2,21,22
- R FM NI Cl.I Div.2 Gr.A-D, zone 2

FTL50H-

943492-9000

SPK: FQA



- U CSA General Purpose
- S CSA IS Cl I,II,III Div.1 Gr.A-G, zone 0,1,2
- T CSA XP Cl I,II,III Div.1 Gr.A-G, zone 1,2
- V TIIS Ex ia IIC T3
- W TIIS Ex d IIB T3
- 7 TIIS Ex d IIC T3
- 8 TIIS Ex d IIC T6
- M NEPSI Ex ia IIC T6
- N NEPSI Ex d IIC T6
- Y Special version, TSP-no. to be spec.

Process Connection:

- GQ2 Thread ISO228 G3/4, 316L, install > Accessory weld-in adapter
- GW2 Thread ISO228 G1, 316L, install > Accessory weld-in adapter
- TC2 Tri-Clamp ISO2852 DN25-38 (1...1-1/2"), 316L
- TE2 Tri-Clamp ISO2852 DN40-51 (2"), 316L
- TT2 Ingold fitting 25x46mm, 316L
- EE2 Flush mount, 316L, install > Accessory weld-in adapter
- PE2 DRD 65mm, 316L
- UE2 SMS 2" PN25, 316L
- WE2 Varivent N tube DN65-162 PN10, 316L
- MA2 DIN11851 DN32 PN25 slotted-nut, 316L
- MC2 DIN11851 DN40 PN25 slotted-nut, 316L
- ME2 DIN11851 DN50 PN25 slotted-nut, 316L
- HE2 DIN11864-1 A DN50 tube DIN11850, slotted-nut, 316L
- B82 DN25 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
- BA2 DN32 PN6 A, 316L flange EN1092-1 (DIN2527 B)
- BB2 DN32 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
- BC2 DN40 PN6 A, 316L flange EN1092-1 (DIN2527 B)
- BD2 DN40 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
- BE2 DN50 PN6 A, 316L flange EN1092-1 (DIN2527 B)
- BG2 DN50 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
- CG2 DN50 PN25/40 B1, 316L flange EN1092-1 (DIN2527 C)
- BH2 DN65 PN6 A, 316L flange EN1092-1 (DIN2527 B)
- BK2 DN65 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
- BM2 DN80 PN10/16 A, 316L flange EN1092-1 (DIN2527 B)
- BN2 DN80 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
- CN2 DN80 PN25/40 B1, 316L flange EN1092-1 (DIN2527 C)
- BQ2 DN100 PN10/16 A, 316L flange EN1092-1 (DIN2527 B)
- CQ2 DN100 PN10/16 B1, 316L flange EN1092-1 (DIN2527 C)
- BR2 DN100 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
- A82 1" 150lbs RF, 316/316L flange ANSI B16.5
- AA2 1-1/4" 150lbs RF, 316/316L flange ANSI B16.5
- AC2 1-1/2" 150lbs RF, 316/316L flange ANSI B16.5
- AE2 2" 150lbs RF, 316/316L flange ANSI B16.5
- AF2 2" 300lbs RF, 316/316L flange ANSI B16.5
- AL2 3" 150lbs RF, 316/316L flange ANSI B16.5
- AP2 4" 150lbs RF, 316/316L flange ANSI B16.5
- KA2 10K 25A RF, 316L flange JIS B2220
- KC2 10K 40A RF, 316L flange JIS B2220
- KE2 10K 50A RF, 316L flange JIS B2220
- KL2 10K 80A RF, 316L flange JIS B2220
- KP2 10K 100A RF, 316L flange JIS B2220
- YY9 Special version, TSP-no. to be spec.

Probe Length; Type:

- AC Compact; Ra<1.5um/59uin
- AD Compact; Ra<0.3um/12uin
- IC Compact; Ra<1.5um/59uin + TS= temp. separator
- ID Compact; Ra<0.3um/12uin + TS= temp. separator
- QC Compact; Ra<1.5um/59uin + PF= press.tight feed through
- QD Compact; Ra<0.3um/12uin + PF= press.tight feed through
- YY Special version, TSP-no. to be spec.

Electronics; Output:

- A FEL50A; PROFIBUS PA
- D FEL50D; Density/Concentration, density electronics w/o WHG approval

- 1 FEL51; SIL 2-wire 19-253VAC
- 2 FEL52; SIL 3-wire PNP 10-55VDC
- 4 FEL54;SIL relay DPDT 19-253VAC/19-55VDC
- 5 FEL55; SIL 8/16mA, 11-36VDC
- 6 FEL56; SIL NAMUR (L-H signal)
- 7 FEL57; SIL 2-wire PFM
- 8 FEL58;SIL NAMUR+test button (H-L signal)
- 9 Special version, TSP-no. to be spec.

Housing; Cable Entry:

- C3 Compact 316L Hygiene IP66/68; cable 5m
- D3 Compact 316L Hygiene IP65; plug Pg11 ISO4400
- E3 Compact 316L Hygiene NEMA4X; plug NPT1/2 ISO4400
- N3 Compact 316L Hygiene IP66/68; plug M12
- G4 F16 Polyester IP66; gland M20
- F4 F16 Polyester IP66; thread G1/2
- E4 F16 Polyester NEMA4X; thread NPT1/2
- N4 F16 Polyester IP66; plug M12
- G6 F15 316L Hygiene IP66; gland M20
- F6 F15 316L Hygiene IP66; thread G1/2
- E6 F15 316L Hygiene NEMA4X; thread NPT1/2
- N6 F15 316L Hygiene IP66; plug M12
- G5 F13/17 Alu IP66; gland M20 (EEx d > thread M20)
- F5 F13/17 Alu IP66; thread G1/2
- E5 F13/17 Alu NEMA4X; thread NPT3/4
- N5 F13/17 Alu IP66; plug M12
- G7 T13 Alu, coated IP66; gland M20, Separate conn. compartment (EEx d > thread M20)
- F7 T13 Alu, coated IP66; thread G1/2, Separate conn. compartment
- E7 T13 Alu, coated IP66; thread NPT3/4, Separate conn. compartment
- Y9 Special version, TSP-no. to be spec.

Additional Option:

- A Basic version
- C EN10204-3.1 material (316L wetted parts) inspection certificate
- D EN10204-3.1 AD2000 material wetted parts, excepting castings inspection certificate
- S GL/ABS marine certificate
- B CoC-ASME BPE, EN10204-3.1 material (316L wetted parts) inspection certificate
- K Spec.adjustment density H2O
- L Spec.adjustment density H2O,EN10204-3.1 material (316L wetted parts) inspection certificate
- Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.

Liquiphant M FTL50

Measurement: Point Level/Density,
Vibronic.
Application: liquids.
Point Level:
:: Millimeter precision switch point.
:: Application safety:
independent of liquid attribute.
independent of built up.
Density:
Continuous measurement.
:: Measure directly in the tank / pipe.

Liquiphant M FTL50

Approval:

- A Non-hazardous area
- D Non-hazardous area, WHG
- B ATEX/NEPSI II 3G EEx nC IIC T6, WHG
- C ATEX/NEPSI II 3G EEx nA II T6, WHG
- G ATEX II 1/2GD Ex ia IIC T6/IECEx zone0/1
- F ATEX II 1/2GD Ex ia IIC T6, WHG/IECEx zone0/1

FTL50-
943490-9000

SPK: FQA



- H ATEX II 1G Ex ia IIC T6
- J ATEX II 1G Ex ia IIC T6, WHG
- K ATEX II 1/2G EEx d IIC T6/IECEx zone0/1
- L ATEX II 1/2G EEx d IIC T6, WHG
- I ATEX II 1/2G EEx de IIC T6/IECEx zone0/1
- E ATEX II 1/2G EEx de IIC T6, WHG
- P FM IS Cl.I,II,III Div.1 Gr.A-G, zone 0,1,2,20,21,22
- Q FM XP Cl.I,II,III Div.1 Gr.A-G, zone 1,2,21,22
- R FM NI Cl.I Div.2 Gr.A-D, zone 2
- U CSA General Purpose
- S CSA IS Cl I,II,III Div.1 Gr.A-G
- T CSA XP Cl I,II,III Div.1 Gr.A-G
- V TIIS Ex ia IIC T3
- W TIIS Ex d IIB T3
- 7 TIIS Ex d IIC T3
- 8 TIIS Ex d IIC T6
- M NEPSI Ex ia IIC T6
- N NEPSI Ex d IIC T6
- Y Special version, TSP-no. to be spec.

Process Connection:

- GQ2 Thread ISO228 G3/4, 316L, install > Accessory weld-in adapter
- GQ5 Thread ISO228 G3/4, AlloyC4
- GQ6 Thread ISO228 G3/4, AlloyC22
- GR2 Thread ISO228 G1, 316L
- GR5 Thread ISO228 G1, AlloyC4
- GR6 Thread ISO228 G1, AlloyC22
- GW2 Thread ISO228 G1, 316L, install > Accessory weld-in adapter
- GE2 Thread EN10226 R3/4, 316L
- GE5 Thread EN10226 R3/4, AlloyC4
- GE6 Thread EN10226 R3/4, AlloyC22
- GF2 Thread EN10226 R1, 316L
- GF5 Thread EN10226 R1, AlloyC4
- GF6 Thread EN10226 R1, AlloyC22
- GM2 Thread ANSI NPT3/4, 316L
- GM5 Thread ANSI NPT3/4, AlloyC4
- GM6 Thread ANSI NPT3/4, AlloyC22
- GN2 Thread ANSI NPT1, 316L
- GN5 Thread ANSI NPT1, AlloyC4
- GN6 Thread ANSI NPT1, AlloyC22
- TC2 Tri-Clamp ISO2852 DN25-38 (1...1-1/2"), 316L
- TE2 Tri-Clamp ISO2852 DN40-51 (2"), 316L
- B82 DN25 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
- C82 DN25 PN25/40 B1, 316L flange EN1092-1 (DIN2527 C)
- C85 DN25 PN25/40, AlloyC4 >316L flange EN1092-1 (DIN2527)
- C86 DN25 PN25/40 B1, AlloyC22 >316L flange EN1092-1 (DIN2527)
- D82 DN25 PN40 B1, 316L flange EN1092-1 (DIN2526 D)
- BA2 DN32 PN6 A, 316L flange EN1092-1 (DIN2527 B)
- CA2 DN32 PN6 B1, 316L flange EN1092-1 (DIN2527 C)
- CA5 DN32 PN6, AlloyC4 >316L flange EN1092-1 (DIN2527)
- CA6 DN32 PN6 B1, AlloyC22 >316L flange EN1092-1 (DIN2527)
- BB2 DN32 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
- BC2 DN40 PN6 A, 316L flange EN1092-1 (DIN2527 B)
- BD2 DN40 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
- BE2 DN50 PN6 A, 316L flange EN1092-1 (DIN2527 B)
- CE2 DN50 PN6 B1, 316L flange EN1092-1 (DIN2527 C)
- CE5 DN50 PN6, AlloyC4 >316L flange EN1092-1 (DIN2527)
- CE6 DN50 PN6 B1, AlloyC22 >316L flange EN1092-1 (DIN2527)
- BG2 DN50 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
- CG2 DN50 PN25/40 B1, 316L flange EN1092-1 (DIN2527 C)
- CG5 DN50 PN25/40, AlloyC4 >316L flange EN1092-1 (DIN2527)
- CG6 DN50 PN25/40 B1, AlloyC22 >316L flange EN1092-1 (DIN2527)
- DG2 DN50 PN40 B1, 316L flange EN1092-1 (DIN2526 D)
- FG2 DN50 PN40 C, 316L flange EN1092-1 (DIN2512 F)
- NG2 DN50 PN40 D, 316L flange EN1092-1 (DIN2512 N)
- BH2 DN65 PN6 A, 316L flange EN1092-1 (DIN2527 B)

BK2 DN65 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
 BM2 DN80 PN10/16 A, 316L flange EN1092-1 (DIN2527 B)
 BN2 DN80 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
 CN2 DN80 PN25/40 B1, 316L flange EN1092-1 (DIN2527 C)
 CN5 DN80 PN25/40, AlloyC4 >316L flange EN1092-1 (DIN2527)
 CN6 DN80 PN25/40 B1, AlloyC22 >316L flange EN1092-1 (DIN2527)
 DN2 DN80 PN40 B1, 316L flange EN1092-1 (DIN2526 D)
 BQ2 DN100 PN10/16 A, 316L flange EN1092-1 (DIN2527 B)
 CQ2 DN100 PN10/16 B1, 316L flange EN1092-1 (DIN2527 C)
 CQ5 DN100 PN10/16, AlloyC4 >316L flange EN1092-1 (DIN2527)
 CQ6 DN100 PN10/16 B1, AlloyC22 >316L flange EN1092-1 (DIN2527)
 BR2 DN100 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
 A82 1" 150lbs RF, 316/316L flange ANSI B16.5
 AA2 1-1/4" 150lbs RF, 316/316L flange ANSI B16.5
 AC2 1-1/2" 150lbs RF, 316/316L flange ANSI B16.5
 AE2 2" 150lbs RF, 316/316L flange ANSI B16.5
 AE5 2" 150lbs, AlloyC4 >316/316L flange ANSI B16.5
 AE6 2" 150lbs RF, AlloyC22 >316/316L flange ANSI B16.5
 AF2 2" 300lbs RF, 316/316L flange ANSI B16.5
 AL2 3" 150lbs RF, 316/316L flange ANSI B16.5
 AM6 3" 300lbs RF, AlloyC22 >316/316L flange ANSI B16.5
 AP2 4" 150lbs RF, 316/316L flange ANSI B16.5
 AQ6 4" 300lbs RF, AlloyC22 >316/316L flange ANSI B16.5
 KA2 10K 25A RF, 316L flange JIS B2220
 KC2 10K 40A RF, 316L flange JIS B2220
 KE2 10K 50A RF, 316L flange JIS B2220
 KE5 10K 50A RF, AlloyC4 >316L flange JIS B2220
 KE6 10K 50A RF, AlloyC22 >316L flange JIS B2220
 KL2 10K 80A RF, 316L flange JIS B2220
 KP2 10K 100A RF, 316L flange JIS B2220
 YY9 Special version, TSP-no. to be spec.

Probe Length; Type:

AA Compact; Ra<3.2um/126uin
 IA Compact; temp. separator
 QA Compact; press.tight feed through

Electronics; Output:

A FEL50A; PROFIBUS PA
 D FEL50D; Density/Concentration, density electronics w/o WHG approval
 1 FEL51; SIL 2-wire 19-253VAC
 2 FEL52; SIL 3-wire PNP 10-55VDC
 4 FEL54;SIL relay DPDT 19-253VAC/19-55VDC
 5 FEL55; SIL 8/16mA, 11-36VDC
 6 FEL56; SIL NAMUR (L-H signal)
 7 FEL57; SIL 2-wire PFM
 8 FEL58;SIL NAMUR+test button (H-L signal)
 9 Special version, TSP-no. to be spec.

Housing; Cable Entry:

C3 Compact 316L Hygiene IP66/68; cable 5m
 D3 Compact 316L Hygiene IP65; plug Pg11 ISO4400
 E3 Compact 316L Hygiene NEMA4X; plug NPT1/2 ISO4400
 N3 Compact 316L Hygiene IP66/68; plug M12
 G4 F16 Polyester IP66; gland M20
 F4 F16 Polyester IP66; thread G1/2
 E4 F16 Polyester NEMA4X; thread NPT1/2
 N4 F16 Polyester IP66; plug M12
 G6 F15 316L Hygiene IP66; gland M20
 F6 F15 316L Hygiene IP66; thread G1/2
 E6 F15 316L Hygiene NEMA4X; thread NPT1/2
 N6 F15 316L Hygiene IP66; plug M12
 G5 F13/17 Alu IP66; gland M20 (EEx d > thread M20)
 F5 F13/17 Alu IP66; thread G1/2
 E5 F13/17 Alu NEMA4X; thread NPT3/4
 N5 F13/17 Alu IP66; plug M12
 G7 T13 Alu, coated IP66; gland M20, Separate conn. compartment (EEx d > thread M20)

- F7 T13 Alu, coated IP66; thread G1/2, Separate conn. compartment
- E7 T13 Alu, coated IP66; thread NPT3/4, Separate conn. compartment
- G1 F27 316L IP68; gland M20 (EEx d > thread M20)
- F1 F27 316L IP68; thread G1/2
- E1 F27 316L NEMA6P; thread NPT3/4
- Y9 Special version, TSP-no. to be spec.

Additional Option:

- A Basic version
- C EN10204-3.1 material (wetted parts) inspection certificate
- D EN10204-3.1 AD2000 material wetted parts, excepting castings inspection certificate
- N EN10204-3.1 material, NACE MR0175 (wetted parts) inspection certificate
- S GL/ABS marine certificate
- K Spec.adjustment density H2O
- L Spec.adjustment density H2O, EN10204-3.1 material (wetted parts) inspection certificate

- B PWIS free, PWIS = paint-wetting impairment substances
- Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.

Liquiphant S FDL60

Point level switch, vibronic.

Application: liquids.

:: Liquid independent.

:: Approved in millions of application.

:: SIL3, IEC61508.

Fail-safe to class 5, acc. DIN V 19250.

:: Redundant acc. VdTÜV in one device.

:: Permanent self function control.

:: Recurrent function test is not applicable.

FDL60-**942197-9000**

SPK: FQA



Liquiphant S FDL60

Approval:

- R Non-hazardous area
- G ATEX II 1/2G EEx ia IIC T6
- B ATEX II 1/2G EEx ia IIC T6, VdTÜV100
- F ATEX II 1/2G EEx ia IIC T6, WHG
- M NEPSI Ex ia IIC T6
- Y Special version, TSP-no. to be spec.

Process Connection:

- GR2 Thread ISO228 G1, 316Ti
- GR5 Thread ISO228 G1, AlloyC
- GN2 Thread ANSI NPT1, 316Ti
- GN5 Thread ANSI NPT1, AlloyC
- TE2 Tri-Clamp ISO2852 DN40-51 (2"), 316Ti
- ME2 DIN11851 DN50 PN25 slotted nut, 316Ti
- BA2 DN32 PN6 A, 316Ti flange EN1092-1 (DIN2527 B)
- BB2 DN32 PN25/40 A, 316Ti flange EN1092-1 (DIN2527 B)
- CA5 DN32 PN6, AlloyC >316L flange EN1092-1 (DIN2527 C)
- BC2 DN40 PN6 A, 316Ti flange EN1092-1 (DIN2527 B)
- BD2 DN40 PN25/40 A, 316Ti flange EN1092-1 (DIN2527 B)
- BE2 DN50 PN6 A, 316Ti flange EN1092-1 (DIN2527 B)
- BG2 DN50 PN25/40 A, 316Ti flange EN1092-1 (DIN2527 B)
- CG2 DN50 PN25/40 B1, 316Ti flange EN1092-1 (DIN2527 C)
- CE5 DN50 PN6, AlloyC >316L flange EN1092-1 (DIN2527 C)
- CG5 DN50 PN25/40, AlloyC >316Ti flange EN1092-1 (DIN2527)
- FG2 DN50 PN40 C, 316Ti flange EN1092-1 (DIN2512 F)
- NG2 DN50 PN40 D, 316Ti flange EN1092-1 (DIN2512 N)
- BK2 DN65 PN25/40 A, 316Ti flange EN1092-1 (DIN2527 B)
- BM2 DN80 PN10/16 A, 316Ti flange EN1092-1 (DIN2527 B)
- BN2 DN80 PN25/40 A, 316Ti flange EN1092-1 (DIN2527 B)
- CN2 DN80 PN25/40 B1, 316Ti flange EN1092-1 (DIN2527 C)

- CN5 DN80 PN25/40, AlloyC >316L flange EN1092-1 (DIN2527)
- FN2 DN80 PN40 C, 316Ti flange EN1092-1 (DIN2512 F)
- NN2 DN80 PN40 D, 316Ti flange EN1092-1 (DIN2512 N)
- BQ2 DN100 PN10/16 A, 316Ti flange EN1092-1 (DIN2527 B)
- CQ2 DN100 PN10/16 B1, 316Ti flange EN1092-1 (DIN2527 C)
- BR2 DN100 PN25/40 A, 316Ti flange EN1092-1 (DIN2527 B)
- CR2 DN100 PN25/40 B1, 316Ti flange EN1092-1 (DIN2527 C)
- CQ5 DN100 PN10/16, AlloyC >316Ti flange EN1092-1 (DIN2527)
- FR2 DN100 PN40 C, 316Ti flange EN1092-1 (DIN2512 F)
- NR2 DN100 PN40 D, 316Ti flange EN1092-1 (DIN2512 N)
- AA2 1-1/4" 150lbs RF, 316Ti flange ANSI B16.5
- AC2 1-1/2" 150lbs RF, 316Ti flange ANSI B16.5
- AE2 2" 150lbs RF, 316Ti flange ANSI B16.5
- AE5 2" 150lbs, AlloyC >316Ti flange ANSI B16.5
- AG2 2" 300lbs RF, 316Ti flange ANSI B16.5
- AG5 2" 300lbs, AlloyC >316Ti flange ANSI B16.5
- AK2 2-1/2" 300lbs RF, 316Ti flange ANSI B16.5
- AL2 3" 150lbs RF, 316Ti flange ANSI B16.5
- AN2 3" 300lbs RF, 316Ti flange ANSI B16.5
- AP2 4" 150lbs RF, 316Ti flange ANSI B16.5
- AR2 4" 300lbs RF, 316Ti flange ANSI B16.5
- AV2 6" 150lbs RF, 316Ti flange ANSI B16.5
- A12 6" 300lbs RF, 316Ti flange ANSI B16.5
- KE2 10K 50A RF, 316Ti flange JIS B2220
- KE5 10K 50A, AlloyC >316Ti flange JIS B2220
- YY9 Special version, TSP-no. to be spec.

Fork Surface Finish:

- A Ra<3.2um/126uin, standard
- B Ra<1.5um/59uin, polished
- Y Special version, TSP-no. to be spec.

Electronics; Output:

- 7 FEL67; 2-wire PFM

Housing; Cable Entry:

- O F10 Polyester IP66; gland M20
- L F10 Polyester IP66; thread NPT1/2
- M F10 Polyester IP66; gland G1/2
- P F10 Polyester IP66; plug HNA24
- V F6 Alu, coated IP66; gland M20
- T F6 Alu, coated IP66; thread NPT1/2
- U F6 Alu, coated IP66; thread G1/2
- W F6 Alu, coated IP66; plug HNA24
- Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.

Liquiphant M FTL51C

Measurement: Point Level/Density, Vibronic.
Coated, extension tube.
Application: liquids.
Point Level:
:: Millimeter precision switch point.
:: Application safety:
independent of liquid attribute.
independent of built up.
Density:
Continuous measurement.
:: Measure directly in the tank / pipe.

FTL51C-
52005888
SPK: FQB



Liquiphant M FTL51C

Approval:

- A Non-hazardous area

- D Non-hazardous area, WHG
- B ATEX/NEPSI II 3G EEx nC IIC T6, WHG
- C ATEX/NEPSI II 3G EEx nA II T6, WHG
- F ATEX II 1/2GD Ex ia IIC T6, WHG/IECEEx zone0/1
- L ATEX II 1/2G EEx d IIC T6, WHG/IECEEx zone0/1
- E ATEX II 1/2G EEx de IIC T6, WHG/IECEEx zone0/1
- 1 ATEX II 1/2G Ex ia IIB T6, WHG
- 2 ATEX II 1/2G EEx d IIB T6, WHG/IECEEx zone0/1
- 3 ATEX II 1/2G EEx de IIB T6, WHG/IECEEx zone0/1
- 4 ATEX II 1/2G Ex ia IIC T6, WHG, XA note safety instruction (XA) (electrostatic charging)!

- 5 ATEX II 1/2G EEx d IIC T6, WHG, IEC, XA IECEEx zone0/1 note safety instruction (XA) (electrostatic charging)!

- 6 ATEX II 1/2G EEx de IIC T6, WHG, IEC, XA IECEEx zone0/1 note safety instruction (XA) (electrostatic charging)!

- P FM IS Cl.I,II,III Div.1 Gr.A-G, zone 0,1,2,20,21,22
- Q FM XP Cl.I,II,III Div.1 Gr.B-G, Gr.A-G if E5 housing is used, zone 1,2,21,22
- R FM NI Cl.I Div.2 Gr.A-D, zone 2
- U CSA General Purpose
- T CSA XP Cl I,II,III Div.1 Gr.A-G, zone 1,2
- S CSA IS Cl I,II,III Div.1 Gr.A-G, zone 0,1,2
- V TIIS Ex ia IIC T3
- W TIIS Ex d IIB T3
- M NEPSI Ex ia IIC T6
- N NEPSI Ex d IIC T6
- Y Special version, TSP-no. to be spec.

Process Connection:

- B8K DN25 PN25/40, ECTFE >316L flange EN1092-1 (DIN2527)
- BBK DN32 PN25/40, ECTFE >316L flange EN1092-1 (DIN2527)
- BDK DN40 PN25/40, ECTFE >316L flange EN1092-1 (DIN2527)
- BEK DN50 PN6, ECTFE >316L flange EN1092-1 (DIN2527)
- BGK DN50 PN25/40, ECTFE >316L flange EN1092-1 (DIN2527)
- BNK DN80 PN25/40, ECTFE >316L flange EN1092-1 (DIN2527)
- BQK DN100 PN10/16, ECTFE >316L flange EN1092-1 (DIN2527)
- B8L DN25 PN25/40, PFA(Edlon) >316L flange EN1092-1 (DIN2527)
- BBL DN32 PN25/40, PFA(Edlon) >316L flange EN1092-1 (DIN2527)
- BDL DN40 PN25/40, PFA(Edlon) >316L flange EN1092-1 (DIN2527)
- BEL DN50 PN6, PFA(Edlon) >316L flange EN1092-1 (DIN2527)
- BGL DN50 PN25/40, PFA(Edlon) >316L flange EN1092-1 (DIN2527)
- BNL DN80 PN25/40, PFA(Edlon) >316L flange EN1092-1 (DIN2527)
- BQL DN100 PN10/16, PFA(Edlon) >316L flange EN1092-1 (DIN2527)
- B8M DN25 PN25/40, PFA(RubyRed) >316L flange EN1092-1 (DIN2527)
- BBM DN32 PN25/40, PFA(RubyRed) >316L flange EN1092-1 (DIN2527)
- BDM DN40 PN25/40, PFA(RubyRed) >316L flange EN1092-1 (DIN2527)
- BEM DN50 PN6, PFA(RubyRed) >316L flange EN1092-1 (DIN2527)
- BGM DN50 PN25/40, PFA(RubyRed) >316L flange EN1092-1 (DIN2527)
- BNM DN80 PN25/40, PFA(RubyRed) >316L flange EN1092-1 (DIN2527)
- BQM DN100 PN10/16, PFA(RubyRed) >316L flange EN1092-1 (DIN2527)
- B8N DN25 PN25/40, PFA(conductive) >316L flange EN1092-1 (DIN2527)
- BBN DN32 PN25/40, PFA(conductive) >316L flange EN1092-1 (DIN2527)
- BDN DN40 PN25/40, PFA(conductive) >316L flange EN1092-1 (DIN2527)
- BEN DN50 PN6, PFA(conductive) >316L flange EN1092-1 (DIN2527)
- BGN DN50 PN25/40, PFA(conductive) >316L flange EN1092-1 (DIN2527)
- BNN DN80 PN25/40, PFA(conductive) >316L flange EN1092-1 (DIN2527)
- BQN DN100 PN10/16, PFA(conductive) >316L flange EN1092-1 (DIN2527)
- CGS DN50 PN25/40, Enamel >1.0487 flange EN1092-1 (DIN2527)
- CNS DN80 PN25/40, Enamel >1.0487 flange EN1092-1 (DIN2527)
- A8K 1" 150lbs, ECTFE >316/316L flange ANSI B16.5
- ACK 1-1/2" 150lbs, ECTFE >316/316L flange ANSI B16.5
- AEK 2" 150lbs, ECTFE >316/316L flange ANSI B16.5
- AFK 2" 300lbs, ECTFE >316/316L flange ANSI B16.5
- ALK 3" 150lbs, ECTFE >316/316L flange ANSI B16.5
- APK 4" 150lbs, ECTFE >316/316L flange ANSI B16.5
- A8L 1" 150lbs, PFA(Edlon) >316/316L flange ANSI B16.5
- ACL 1-1/2" 150lbs, PFA(Edlon) >316/316L flange ANSI B16.5

AEL 2" 150lbs, PFA(Edlon) >316/316L flange ANSI B16.5
 AFL 2" 300lbs, PFA(Edlon) >316/316L flange ANSI B16.5
 ALL 3" 150lbs, PFA(Edlon) >316/316L flange ANSI B16.5
 APL 4" 150lbs, PFA(Edlon) >316/316L flange ANSI B16.5
 A8M 1" 150lbs, PFA(RubyRed) >316/316L flange ANSI B16.5
 ACM 1-1/2" 150lbs, PFA(RubyRed) >316/316L flange ANSI B16.5
 AEM 2" 150lbs, PFA(RubyRed) >316/316L flange ANSI B16.5
 AFM 2" 300lbs, PFA(RubyRed) >316/316L flange ANSI B16.5
 ALM 3" 150lbs, PFA(RubyRed) >316/316L flange ANSI B16.5
 APM 4" 150lbs, PFA(Rubyred) >316/316L flange ANSI B16.5
 A8N 1" 150lbs, PFA(conductive) >316/316L flange ANSI B16.5
 ACN 1-1/2" 150lbs, PFA(conductive) >316/316L flange ANSI B16.5
 AEN 2" 150lbs, PFA(conductive) >316/316L flange ANSI B16.5
 AFN 2" 300lbs, PFA(conductive) >316/316L flange ANSI B16.5
 ALN 3" 150lbs, PFA(conductive) >316/316L flange ANSI B16.5
 APN 4" 150lbs, PFA(conductive) >316/316L flange ANSI B16.5
 AES 2" 150lbs, Enamel >1.0487 ASTM A516 Grade 60 flange ANSI B16.5
 AFS 2" 300lbs, Enamel >1.0487 ASTM A516 Grade 60 flange ANSI B16.5
 KEK 10K 50A, ECTFE >316L flange JIS B2220
 KEL 10K 50A, PFA(Edlon) >316L flange JIS B2220
 KEM 10K 50A, PFA(RubyRed) >316L flange JIS B2220
 KEN 10K 50A, PFA(conductive) >316L flange JIS B2220
 YY9 Special version, TSP-no. to be spec.

Probe Length; Type:

BK xxx mm; ECTFE
 BL xxx mm; PFA (Edlon)
 BM xxx mm; PFA (RubyRed)
 BN xxx mm; PFA (conductive)
 BS xxx mm; Enamel
 ES 200mm; Enamel
 FS 300mm; Enamel
 GS 400mm; Enamel
 HS 500mm; Enamel
 KS 600mm; Enamel
 CK xxx inch; ECTFE
 CL xxx inch; PFA (Edlon)
 CM xxx inch; PFA (RubyRed)
 CN xxx inch; PFA (conductive)
 CS xxx inch; Enamel
 DK L=type II; ECTFE, Switch point = Liquiphant II compact
 DL L=type II; PFA (Edlon), Switch point = Liquiphant II compact
 DM L=type II; PFA (RubyRed), Switch point = Liquiphant II compact
 DN L=type II; PFA (conductive), Switch point = Liquiphant II compact
 DS L=type II; Enamel, Switch point = Liquiphant II compact
 YY Special version, TSP-no. to be spec.

Electronics; Output:

A FEL50A; PROFIBUS PA
 D FEL50D; Density/Concentration, density electronics w/o WHG approval
 1 FEL51; SIL 2-wire 19-253VAC
 2 FEL52; SIL 3-wire PNP 10-55VDC
 4 FEL54; SIL relay DPDT 19-253VAC/19-55VDC
 5 FEL55; SIL 8/16mA, 11-36VDC
 6 FEL56; SIL NAMUR (L-H signal)
 7 FEL57; SIL 2-wire PFM
 8 FEL58; SIL NAMUR+test button (H-L signal)
 9 Special version, TSP-no. to be spec.

Housing; Cable Entry:

G4 F16 Polyester IP66; gland M20
 F4 F16 Polyester IP66; thread G1/2
 E4 F16 Polyester NEMA4X; thread NPT1/2
 N4 F16 Polyester IP66; plug M12
 G6 F15 316L Hygiene IP66; gland M20
 F6 F15 316L Hygiene IP66; thread G1/2
 E6 F15 316L Hygiene NEMA4X; thread NPT1/2

- N6 F15 316L Hygiene IP66; plug M12
- G5 F13/17 Alu IP66; gland M20 (EEx d > thread M20)
- F5 F13/17 Alu IP66; thread G1/2
- E5 F13/17 Alu NEMA4X; thread NPT3/4
- N5 F13/17 Alu IP66; plug M12
- G7 T13 Alu, coated IP66; gland M20, Separate conn. compartment (EEx d > thread M20)
- F7 T13 Alu, coated IP66, thread G1/2, Separate conn. compartment
- E7 T13 Alu, coated IP66, thread NPT3/4, Separate conn. compartment
- G1 F27 316L IP68; gland M20 (EEx d > thread M20)
- F1 F27, 316L IP68; thread G1/2
- E1 F27 316L NEMA6P; thread NPT3/4
- Y9 Special version, TSP-no. to be spec.

Additional Option 1:

- A Not selected
- S GL/ABS marine certificate, max 1600mm
- K Spec.adjustment density H2O
- Y Special version, TSP-no. to be spec.

Additional Option 2:

- A Not selected
- B Temp. separator
- C 2nd line of defence > (press.tight feed through)
- Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.

Liquiphant S FTL71

Point level switch, vibronic.
Application: liquids + high
process temperature.
:: Liquid independent.
Short fork, extension tube.
:: Suitable on narrow mount. condition.
Integrated gastight feedthrough.
:: Highest safety under high pressure.

FTL71-
52008809
SPK: FQB



Liquiphant S FTL71

Approval:

- A Non-hazardous area
- D Non-hazardous area, WHG
- B ATEX/NEPSI II 3G EEx nC II T6, WHG
- C ATEX/NEPSI II 3G EEx nA II T6, WHG
- F ATEX II 1/2GD Ex ia IIC T6, WHG/IECEx zone0/1
- L ATEX II 1/2G EEx d IIC T6, WHG/IECEx zone0/1
- E ATEX II 1/2G EEx de IIC T6, WHG/IECEx zone0/1
- P FM IS Cl.I,II,III Div.1 Gr.A-G, zone 0,1,2,20,21,22
- Q FM XP Cl.I,II,III Div.1 Gr.A-G, zone 1,2,21,22
- R FM NI Cl.I Div.2 Gr.A-D, zone 2
- S CSA IS Cl I,II,III Div.1 Gr.A-G, zone 0,1,2
- T CSA XP Cl I,II,III Div.1 Gr.A-G, zone 1,2
- U CSA General Purpose
- V TIIS Ex ia IIC T2
- W TIIS Ex d IIC T2
- M NEPSI Ex ia IIC T6
- N NEPSI Ex d IIC T6
- Y Special version, TSP-no. to be spec.

Process Connection:

- GQ2 Thread ISO228 G3/4, 316L
- GQ5 Thread ISO228 G3/4, AlloyC4
- GQ6 Thread ISO228 G3/4, AlloyC22
- GR2 Thread ISO228 G1, 316L
- GR5 Thread ISO228 G1, AlloyC4
- GR6 Thread ISO228 G1, AlloyC22

GE2 Thread EN10226 R3/4, 316L
GE5 Thread EN10226 R3/4, AlloyC4
GE6 Thread EN10226 R3/4, AlloyC22
GF2 Thread EN10226 R1, 316L
GF5 Thread EN10226 R1, AlloyC4
GF6 Thread EN10226 R1, AlloyC22
GM2 Thread ANSI NPT3/4, 316L
GM5 Thread ANSI NPT3/4, AlloyC4
GM6 Thread ANSI NPT3/4, AlloyC22
GN2 Thread ANSI NPT1, 316L
GN5 Thread ANSI NPT1, AlloyC4
GN6 Thread ANSI NPT1, AlloyC22
B82 DN25 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
C82 DN25 PN25/40 B1, 316L flange EN1092-1 (DIN2527 C)
D82 DN25 PN40 B1, 316L flange EN1092-1 (DIN2526 D)
C86 DN25 PN25/40 B1, AlloyC22 >1.4462 flange EN1092-1 (DIN2527)
C85 DN25 PN25/40, AlloyC4 >1.4462 flange EN1092-1 (DIN2527)
BB2 DN32 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
BD2 DN40 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
CF2 DN50 PN10/16 B1, 316L flange EN1092-1 (DIN2527 C)
BG2 DN50 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
CG2 DN50 PN25/40 B1, 316L flange EN1092-1 (DIN2527 C)
CG6 DN50 PN25/40 B1, AlloyC22 >1.4462 flange EN1092-1 (DIN2527)
CG5 DN50 PN25/40, AlloyC4 >1.4462 flange EN1092-1 (DIN2527)
DG2 DN50 PN40 B1, 316L flange EN1092-1 (DIN2526 D)
B12 DN50 PN63 A, 316L flange EN1092-1 (DIN2527 B)
C12 DN50 PN63 B2, 316L flange EN1092-1 (DIN2527 E)
C15 DN50 PN63, AlloyC4 >1.4462 flange EN1092-1 (DIN2527)
C16 DN50 PN63 B1, AlloyC22 >1.4462 flange EN1092-1 (DIN2527)
BJ2 DN50 PN100 A, 316L flange EN1092-1
CJ2 DN50 PN100 B2, 316L flange EN1092-1
BK2 DN65 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
CM2 DN80 PN10/16 B1, 316L flange EN1092-1 (DIN2527 C)
BN2 DN80 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
CN2 DN80 PN25/40 B1, 316L flange EN1092-1 (DIN2527 C)
DN2 DN80 PN40 B1, 316L flange EN1092-1 (DIN2526 D)
CN5 DN80 PN25/40, AlloyC4 >1.4462 flange EN1092-1 (DIN2527)
CN6 DN80 PN25/40 B1, AlloyC22 >1.4462 flange EN1092-1 (DIN2527)
B02 DN80 PN63 A, 316Ti flange EN1092-1 (DIN2527 B)
C02 DN80 PN63 B2, 316L flange EN1092-1 (DIN2527 E)
C05 DN80 PN63, AlloyC4 >1.4462 flange EN1092-1 (DIN2527)
C06 DN80 PN63 B1, AlloyC22 >1.4462 flange EN1092-1 (DIN2527)
B12 DN80 PN100 A, 316L flange EN1092-1
C12 DN80 PN100 B2, 316L flange EN1092-1
CQ2 DN100 PN10/16 B1, 316L flange EN1092-1 (DIN2527 C)
BR2 DN100 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
BU2 DN100 PN63 A, 316L flange EN1092-1 (DIN2527 B)
CU2 DN100 PN63 B2, 316L flange EN1092-1 (DIN2527 E)
CU5 DN100 PN63, AlloyC4 >1.4462 flange EN1092-1 (DIN2527)
CU6 DN100 PN63 B1, AlloyC22 >1.4462 flange EN1092-1 (DIN2527)
A82 1" 150lbs RF, 316/316L flange ANSI B16.5
AB2 1-1/4" 300lbs RF, 316/316L flange ANSI B16.5
AC2 1-1/2" 150lbs RF, 316/316L flange ANSI B16.5
AD2 1-1/2" 300lbs RF, 316/316L flange ANSI B16.5
AE2 2" 150lbs RF, 316/316L flange ANSI B16.5
AE5 2" 150lbs, AlloyC4 >1.4462 flange ANSI B16.5
AE6 2" 150lbs RF, AlloyC22 >1.4462 flange ANSI B16.5
AF2 2" 300lbs RF, 316/316L flange ANSI B16.5
AF5 2" 300lbs, AlloyC4 >1.4462 flange ANSI B16.5
AF6 2" 300lbs RF, AlloyC22 >1.4462 flange ANSI B16.5
AG2 2" 600lbs RF, 316/316L flange ANSI B16.5
AG5 2" 600lbs, AlloyC4 >1.4462 flange ANSI B16.5
AG6 2" 600lbs RF, AlloyC22 >1.4462 flange ANSI B16.5
AL2 3" 150lbs RF, 316/316L flange ANSI B16.5
AM2 3" 300lbs RF, 316/316L flange ANSI B16.5

- AN2 3" 600lbs RF, 316/316L flange ANSI B16.5
- AN5 3" 600lbs, AlloyC4 >1.4462 flange ANSI B16.5
- AN6 3" 600lbs RF, AlloyC22 >1.4462 flange ANSI B16.5
- AP2 4" 150lbs RF, 316/316L flange ANSI B16.5
- AQ2 4" 300lbs RF, 316/316L flange ANSI B16.5
- AR2 4" 600lbs RF, 316/316L flange ANSI B16.5
- KF2 20K 50A RF, 316L flange JIS B2220
- KF5 20K 50A RF, AlloyC4 >316L flange JIS B2220
- KF6 20K 50A RF, AlloyC22 >1.4462 flange JIS B2220
- YY9 Special version, TSP-no. to be spec.

Probe Length:

- BB xxx mm L, Ra<3.2um/126uin, 316L, Fork: 318L
- BE xxx mm L, Ra<3.2um/126uin, Alloy
- CB xxx inch L, Ra<3.2um/126uin, 316L, Fork: 318L
- CE xxx inch L, Ra<3.2um/126uin, Alloy
- YY Special version, TSP-no. to be spec.

Electronics; Output:

- A FEL50A; PROFIBUS PA
- 1 FEL51; SIL 2-wire 19-253VAC
- 2 FEL52; SIL 3-wire PNP 10-55VDC
- 4 FEL54;SIL relay DPDT 19-253VAC/19-55VDC
- 5 FEL55; SIL 8/16mA, 11-36VDC
- 6 FEL56; SIL NAMUR (L-H signal)
- 7 FEL57; SIL 2-wire PFM
- 8 FEL58;SIL NAMUR+test button (H-L signal)
- 9 Special version, TSP-no. to be spec.

Housing; Cable Entry:

- G4 F16 Polyester IP66; gland M20
- F4 F16 Polyester IP66; thread G1/2
- E4 F16 Polyester NEMA4X; thread NPT1/2
- N4 F16 Polyester IP66; plug M12
- G6 F15 316L Hygiene IP66; gland M20
- F6 F15 316L Hygiene IP66; thread G1/2
- E6 F15 316L Hygiene NEMA4X; thread NPT1/2
- N6 F15 316L Hygiene IP66; plug M12
- G5 F17 Alu IP66; gland M20
- F5 F17 Alu IP66; thread G1/2
- E5 F17 Alu NEMA4X; thread NPT3/4
- N5 F17 Alu IP66; plug M12
- G8 F13 Alu IP68; M20 suitable for EEx d/XP
- F8 F13 Alu IP68; thread G1/2, Suitable for EEx d/XP
- E8 F13 Alu NEMA4X; thread NPT3/4 Suitable for EEx d/XP
- G7 T13 Alu, coated IP66; gland M20, Separate conn. compartment (EEx d > thread M20)
- F7 T13 Alu, coated IP66; thread G1/2, Separate conn. compartment
- E7 T13 Alu, coated IP66; thread NPT3/4, Separate conn. compartment
- G1 F27 316L IP68; gland M20, precision casting, (EEx d > thread M20)
- F1 F27, 316L IP68; thread G1/2, precision casting
- E1 F27 316L NEMA6P; thread NPT3/4, precision casting
- Y9 Special version, TSP-no. to be spec.

Additional Option:

- A Basic version
- C EN10204-3.1 material (wetted parts) inspection certificate
- D EN10204-3.1 AD2000 material wetted parts, excepting castings inspection certificate
- N EN10204-3.1 material, NACE MR0175 (wetted parts) inspection certificate
- S GL/ABS marine certificate
- Y Special version, TSP-no. to be spec.

Application:

- L 230oC/450oF, gas-tight feed through
- N 280oC/540oF, gas-tight feed through
- Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.

Liquiphant M FTL51

Measurement: Point Level/Density,
Vibronic.
Extension tube.
Application: liquids.
Point Level:
:: Millimeter precision switch point.
:: Application safety:
independent of liquid attribute.
independent of built up.
Density:
Continuous measurement.
:: Measure directly in the tank / pipe.

FTL51-
943491-9000

SPK: FQB



Liquiphant M FTL51

Approval:

- A Non-hazardous area
- D Non-hazardous area, WHG
- B ATEX/NEPSI II 3G EEx nC IIC T6, WHG
- C ATEX/NEPSI II 3G EEx nA II T6, WHG
- G ATEX II 1/2GD Ex ia IIC T6/IECEEx zone0/1
- F ATEX II 1/2GD Ex ia IIC T6, WHG/IECEEx zone0/1
- H ATEX II 1G Ex ia IIC T6
- J ATEX II 1G Ex ia IIC T6, WHG
- K ATEX II 1/2G EEx d IIC T6/IECEEx zone0/1
- L ATEX II 1/2G EEx d IIC T6, WHG
- I ATEX II 1/2G EEx de IIC T6/IECEEx zone0/1
- E ATEX II 1/2G EEx de IIC T6, WHG
- P FM IS Cl.I,II,III Div.1 Gr.A-G, zone 0,1,2,20,21,22
- Q FM XP Cl.I,II,III Div.1 Gr.B-G, Gr.A-G if E5 housing is used, zone 1,2,21,22
- R FM NI Cl.I Div.2 Gr.A-D, zone 2
- U CSA General Purpose
- S CSA IS Cl I,II,III Div.1 Gr.A-G, zone 0,1,2
- T CSA XP Cl I,II,III Div.1 Gr.A-G, zone 1,2
- V TIIS Ex ia IIC T3
- W TIIS Ex d IIB T3
- 7 TIIS Ex d IIC T3
- 8 TIIS Ex d IIC T6
- M NEPSI Ex ia IIC T6
- N NEPSI Ex d IIC T6
- Y Special version, TSP-no. to be spec.

Process Connection:

- GQ2 Thread ISO228 G3/4, 316L, install > Accessory weld-in adapter
- GQ5 Thread ISO228 G3/4, AlloyC4
- GQ6 Thread ISO228 G3/4, AlloyC22
- GR2 Thread ISO228 G1, 316L
- GR5 Thread ISO228 G1, AlloyC4
- GR6 Thread ISO228 G1, AlloyC22
- GW2 Thread ISO228 G1, 316L, install > Accessory weld-in adapter
- GE2 Thread EN10226 R3/4, 316L
- GE5 Thread EN10226 R3/4, AlloyC4
- GE6 Thread EN10226 R3/4, AlloyC22
- GF2 Thread EN10226 R1, 316L
- GF5 Thread EN10226 R1, AlloyC4
- GF6 Thread EN10226 R1, AlloyC22
- GM2 Thread ANSI NPT3/4, 316L
- GM5 Thread ANSI NPT3/4, AlloyC4
- GM6 Thread ANSI NPT3/4, AlloyC22
- GN2 Thread ANSI NPT1, 316L
- GN5 Thread ANSI NPT1, AlloyC4
- GN6 Thread ANSI NPT1, AlloyC22
- TC2 Tri-Clamp ISO2852 DN25-38 (1...1-1/2"), 316L
- TE2 Tri-Clamp ISO2852 DN40-51 (2"), 316L

B82 DN25 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
C82 DN25 PN25/40 B1, 316L flange EN1092-1 (DIN2527 C)
C85 DN25 PN25/40, AlloyC4 >316L flange EN1092-1 (DIN2527)
C86 DN25 PN25/40 B1, AlloyC22 >316L flange EN1092-1 (DIN2527)
D82 DN25 PN40 B1, 316L flange EN1092-1 (DIN2526 D)
BA2 DN32 PN6 A, 316L flange EN1092-1 (DIN2527 B)
CA2 DN32 PN6 B1, 316L flange EN1092-1 (DIN2527 C)
CA5 DN32 PN6, AlloyC4 >316L flange EN1092-1 (DIN2527)
CA6 DN32 PN6 B1, AlloyC22 >316L flange EN1092-1 (DIN2527)
BB2 DN32 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
BC2 DN40 PN6 A, 316L flange EN1092-1 (DIN2527 B)
BD2 DN40 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
BE2 DN50 PN6 A, 316L flange EN1092-1 (DIN2527 B)
CE2 DN50 PN6 B1, 316L flange EN1092-1 (DIN2527 C)
CE5 DN50 PN6, AlloyC4 >316L flange EN1092-1 (DIN2527)
CE6 DN50 PN6 B1, AlloyC22 >316L flange EN1092-1 (DIN2527)
BG2 DN50 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
CG2 DN50 PN25/40 B1, 316L flange EN1092-1 (DIN2527 C)
CG5 DN50 PN25/40, AlloyC4 >316L flange EN1092-1 (DIN2527)
CG6 DN50 PN25/40 B1, AlloyC22 >316L flange EN1092-1 (DIN2527)
DG2 DN50 PN40 B1, 316L flange EN1092-1 (DIN2526 D)
FG2 DN50 PN40 C, 316L flange EN1092-1 (DIN2512 F)
NG2 DN50 PN40 D, 316L flange EN1092-1 (DIN2512 N)
BJ2 DN50 PN100 A, 316L flange EN1092-1 (DIN2527 B)
CJ2 DN50 PN100 B2, 316L flange EN1092-1 (DIN2527)
BH2 DN65 PN6 A, 316L flange EN1092-1 (DIN2527 B)
BK2 DN65 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
BM2 DN80 PN10/16 A, 316L flange EN1092-1 (DIN2527 B)
BN2 DN80 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
CN2 DN80 PN25/40 B1, 316L flange EN1092-1 (DIN2527 C)
CN5 DN80 PN25/40, AlloyC4 >316L flange EN1092-1 (DIN2527)
CN6 DN80 PN25/40 B1, AlloyC22 >316L flange EN1092-1 (DIN2527)
DN2 DN80 PN40 B1, 316L flange EN1092-1 (DIN2526 D)
B12 DN80 PN100 A, 316L flange EN1092-1 (DIN2527 B)
C12 DN80 PN100 B2, 316L flange EN1092-1 (DIN2527)
BQ2 DN100 PN10/16 A, 316L flange EN1092-1 (DIN2527 B)
CQ2 DN100 PN10/16 B1, 316L flange EN1092-1 (DIN2527 C)
BR2 DN100 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
CQ5 DN100 PN10/16, AlloyC4 >316L flange EN1092-1 (DIN2527)
CQ6 DN100 PN10/16 B1, AlloyC22 >316L flange EN1092-1 (DIN2527)
A82 1" 150lbs RF, 316/316L flange ANSI B16.5
AA2 1-1/4" 150lbs RF, 316/316L flange ANSI B16.5
AB2 1-1/4" 300lbs RF, 316/316L flange ANSI B16.5
AC2 1-1/2" 150lbs RF, 316/316L flange ANSI B16.5
AD2 1-1/2" 300lbs RF, 316/316L flange ANSI B16.5
AE2 2" 150lbs RF, 316/316L flange ANSI B16.5
AE5 2" 150lbs, AlloyC4 >316/316L flange ANSI B16.5
AE6 2" 150lbs RF, AlloyC22 >316/316L flange ANSI B16.5
AF2 2" 300lbs RF, 316/316L flange ANSI B16.5
AG2 2" 600lbs RF, 316/316L flange ANSI B16.5
AJ2 2-1/2" 300lbs RF, 316/316L flange ANSI B16.5
AL2 3" 150lbs RF, 316/316L flange ANSI B16.5
AM2 3" 300lbs RF, 316/316L flange ANSI B16.5
AN2 3" 600lbs RF, 316/316L flange ANSI B16.5
AM6 3" 300lbs RF, AlloyC22 >316/316L flange ANSI B16.5
AP2 4" 150lbs RF, 316/316L flange ANSI B16.5
AQ2 4" 300lbs RF, 316/316L flange ANSI B16.5
AQ6 4" 300lbs RF, AlloyC22 >316/316L flange ANSI B16.5
AR2 4" 600lbs RF, 316/316L flange ANSI B16.5
KA2 10K 25A RF, 316L flange JIS B2220
KC2 10K 40A RF, 316L flange JIS B2220
KE2 10K 50A RF, 316L flange JIS B2220
KE5 10K 50A, AlloyC4 >316L flange JIS B2220
KE6 10K 50A RF, AlloyC22 >316L flange JIS B2220
KL2 10K 80A RF, 316L flange JIS B2220

KP2 10K 100A RF, 316L flange JIS B2220
YY9 Special version, TSP-no. to be spec.

Probe Length; Type:

BB xxx mm; 316L, Ra<3.2um/126uin
BE xxx mm; Alloy, Ra<3.2um/126uin
CB xxx inch; 316L, Ra<3.2um/126uin
CE xxx inch; Alloy, Ra<3.2um/126uin
DB L=type II; 316L, Ra<3.2um/126uin, Switch point = Liquiphant II compact
DE L=type II; Alloy, Ra<3.2um/126uin, Switch point = Liquiphant II compact
JB xxx mm; 316L + temp. separator
JE xxx mm; Alloy + temp. separator
KB xxx inch; 316L + temp. separator
KE xxx inch; Alloy + temp. separator
LB L=type II; 316L + temp. separator, Switch point = Liquiphant II compact
LE L=type II; Alloy + temp. separator Switch point = Liquiphant II compact
RB xxx mm; 316L+ press.tight feed through
RE xxx mm; Alloy + press.tight feed through
SB xxx inch;316L+press.tight feed through
SE xxx inch; Alloy + press.tight feed through
TB L=type II; 316L + press.tight feed through, Switch point = Liquiphant II compact
TE L=type II; Alloy + press.tight feed through, switch point = Liquiphant II compact
YY Special version, TSP-no. to be spec.

Electronics; Output:

A FEL50A; PROFIBUS PA
D FEL50D; Density/Concentration, density electronics w/o WHG approval
1 FEL51; SIL 2-wire 19-253VAC
2 FEL52; SIL 3-wire PNP 10-55VDC
4 FEL54;SIL relay DPDT 19-253VAC/19-55VDC
5 FEL55; SIL 8/16mA, 11-36VDC
6 FEL56; SIL NAMUR (L-H signal)
7 FEL57; SIL 2-wire PFM
8 FEL58;SIL NAMUR+test button (H-L signal)
9 Special version, TSP-no. to be spec.

Housing; Cable Entry:

C3 Compact 316L Hygiene IP66/68; cable 5m
D3 Compact 316L Hygiene IP65; plug Pg11 ISO4400
E3 Compact 316L Hygiene NEMA4X; plug NPT1/2 ISO4400
N3 Compact 316L Hygiene IP66/68; plug M12
G4 F16 Polyester IP66; gland M20
F4 F16 Polyester IP66; thread G1/2
E4 F16 Polyester NEMA4X; thread NPT1/2
N4 F16 Polyester IP66; plug M12
G6 F15 316L Hygiene IP66; gland M20
F6 F15 316L Hygiene IP66; thread G1/2
E6 F15 316L Hygiene NEMA4X; thread NPT1/2
N6 F15 316L Hygiene IP66; plug M12
G5 F13/17 Alu IP66; gland M20 (EEx d > thread M20)
F5 F13/17 Alu IP66; thread G1/2
E5 F13/17 Alu NEMA4X; thread NPT3/4
N5 F13/17 Alu IP66; plug M12
G7 T13 Alu, coated IP66; gland M20, Separate conn. compartment (EEx d > thread M20)
F7 T13 Alu, coated IP66; thread G1/2, Separate conn. compartment
E7 T13 Alu, coated IP66; thread NPT3/4, Separate conn. compartment
G1 F27 316L IP68; gland M20 (EEx d > thread M20)
F1 F27 316L IP68; thread G1/2
E1 F27 316L NEMA6P; thread NPT3/4
Y9 Special version, TSP-no. to be spec.

Additional Option:

A Basic version
C EN10204-3.1 material (wetted parts) inspection certificate
D EN10204-3.1 AD2000 material wetted parts, excepting castings inspection certificate
N EN10204-3.1 material, NACE MR0175 (wetted parts) inspection certificate
S GL/ABS marine certificate, max 1600mm
P 100bar process pressure

- R 100bar process pressure, EN10204-3.1 material, NACE MR0175 (wetted parts) inspection certificate
- K Spec.adjustment density H2O
- L Spec.adjustment density H2O,EN10204-3.1 material (wetted parts) inspection certificate
- B PWIS free, PWIS = paint-wetting impairment substances, max 2000mm
- Y Special version, TSP-no. to be spec.
- >>>Marking: (optional)**
- 1 Tagging (TAG), see additional spec.

Liquiphant S FDL61

Point level switch, vibronic.
Application: liquids.
:: Liquid independent.
Extension tube.
:: Approved in millions of application.
:: SIL3, IEC61508.
Fail-safe to class 5, acc. DIN V 19250.
:: Redundant acc. VdTÜV in one device.
:: Permanent self function control.
:: Recurrent function test is not applicable.

FDL61-
942198-9000
SPK: FQB



Liquiphant S FDL61

Approval:

- R Non-hazardous area
- G ATEX II 1/2G EEx ia IIC T6
- B ATEX II 1/2G EEx ia IIC T6, VdTÜV100 (liquified gas)
- F ATEX II 1/2G EEx ia IIC T6, WHG
- M NEPSI Ex ia IIC T6
- Y Special version, TSP-no. to be spec.

Process Connection:

- GR2 Thread ISO228 G1, 316Ti
- GR5 Thread ISO228 G1, AlloyC
- SR2 Thread ISO228 G1-1/2, 316Ti, Sliding sleeve
- SR5 Thread ISO228 G1-1/2, AlloyC, Sliding sleeve
- GN2 Thread ANSI NPT1, 316Ti
- GN5 Thread ANSI NPT1, AlloyC
- SN2 Thread ANSI NPT1-1/2, 316Ti, Sliding sleeve
- SN5 Thread ANSI NPT1-1/2, AlloyC, Sliding sleeve
- TE2 Tri-Clamp ISO2852 DN40-51 (2"), 316Ti
- ME2 DIN11851 DN50 PN25 slotted nut, 316Ti
- BA2 DN32 PN6 A, 316Ti flange EN1092-1 (DIN2527 B)
- CA5 DN32 PN6, AlloyC >316L flange EN1092-1 (DIN2527)
- BB2 DN32 PN25/40 A, 316Ti flange EN1092-1 (DIN2527 B)
- BC2 DN40 PN6 A, 316Ti flange EN1092-1 (DIN2527 B)
- BD2 DN40 PN25/40 A, 316Ti flange EN1092-1 (DIN2527 B)
- BE2 DN50 PN6 A, 316Ti flange EN1092-1 (DIN2527 B)
- CE5 DN50 PN6, AlloyC >316L flange EN1092-1 (DIN2527)
- BG2 DN50 PN25/40 A, 316Ti flange EN1092-1 (DIN2527 B)
- CG2 DN50 PN25/40 B1, 316Ti flange EN1092-1 (DIN2527 C)
- CG5 DN50 PN25/40, AlloyC >316Ti flange EN1092-1 (DIN2527)
- FG2 DN50 PN40 C, 316Ti flange EN1092-1 (DIN2512 F)
- NG2 DN50 PN40 D, 316Ti flange EN1092-1 (DIN2512 N)
- BK2 DN65 PN25/40 A, 316Ti flange EN1092-1 (DIN2527 B)
- BM2 DN80 PN10/16 A, 316Ti flange EN1092-1 (DIN2527 B)
- BN2 DN80 PN25/40 A, 316Ti flange EN1092-1 (DIN2527 B)
- CN2 DN80 PN25/40 B1, 316Ti flange EN1092-1 (DIN2527 C)
- CN5 DN80 PN25/40, AlloyC >316L flange EN1092-1 (DIN2527)
- FN2 DN80 PN40 C, 316Ti flange EN1092-1 (DIN2512 F)
- NN2 DN80 PN40 D, 316Ti flange EN1092-1 (DIN2512 N)
- BQ2 DN100 PN10/16 A, 316Ti flange EN1092-1 (DIN2527 B)
- CQ2 DN100 PN10/16 B1, 316Ti flange EN1092-1 (DIN2527 C)

CQ5 DN100 PN10/16, AlloyC >316Ti flange EN1092-1 (DIN2527)
 BR2 DN100 PN25/40 A, 316Ti flange EN1092-1 (DIN2527 B)
 CR2 DN100 PN25/40 B1, 316Ti flange EN1092-1 (DIN2527 C)
 FR2 DN100 PN40 C, 316Ti flange EN1092-1 (DIN2512 F)
 NR2 DN100 PN40 D, 316Ti flange EN1092-1 (DIN2512 N)
 AA2 1-1/4" 150lbs RF, 316Ti flange ANSI B16.5
 AC2 1-1/2" 150lbs RF, 316Ti flange ANSI B16.5
 AE2 2" 150lbs RF, 316Ti flange ANSI B16.5
 AE5 2" 150lbs, AlloyC >316Ti flange ANSI B16.5
 AG2 2" 300lbs RF, 316Ti flange ANSI B16.5
 AG5 2" 300lbs, AlloyC >316Ti flange ANSI B16.5
 AK2 2-1/2" 300lbs RF, 316Ti flange ANSI B16.5
 AL2 3" 150lbs RF, 316Ti flange ANSI B16.5
 AN2 3" 300lbs RF, 316Ti flange ANSI B16.5
 AP2 4" 150lbs RF, 316Ti flange ANSI B16.5
 AR2 4" 300lbs RF, 316Ti flange ANSI B16.5
 AV2 6" 150lbs RF, 316Ti flange ANSI B16.5
 A12 6" 300lbs RF, 316Ti flange ANSI B16.5
 KE2 10K 50A RF, 316Ti flange JIS B2220
 KE5 10K 50A, AlloyC >316Ti flange JIS B2220
 YY9 Special version, TSP-no. to be spec.

Fork Surface Finish:

A Ra<3.2um/126uin, standard
 B Ra<1.5um/59uin, polished
 Y Special version, TSP-no. to be spec.

Probe Length:

A xxx mm, pipe + fork, 316Ti
 C xxx mm, pipe + fork, AlloyC
 G xxx mm, 316Ti, fork polished
 1 xxx inch, pipe + fork, 316Ti
 3 xxx inch, pipe + fork, AlloyC
 4 xxx inch, 316Ti, fork polished
 Y Special version, TSP-no. to be spec.

Electronics; Output:

7 FEL67, 2-wire PFM

Housing; Cable Entry:

O F10 Polyester IP66; gland M20
 L F10 Polyester IP66; thread NPT1/2
 M F10 Polyester IP66; gland G1/2
 P F10 Polyester IP66; plug HNA24
 V F6 Alu, coated IP66; gland M20
 T F6 Alu, coated IP66; thread NPT1/2
 U F6 Alu, coated IP66; thread G1/2
 W F6 Alu, coated IP66; plug HNA24
 Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

1 Tagging (TAG), see additional spec.

Liquiphant M FTL51H

Measurement: Point Level/Density,
 Vibronic.
 Food + Life Sciences.
 Polished surface.
 Application: liquids.
 Point Level:
 :: Millimeter precision switch point.
 :: Application safety:
 independent of liquid attribute.
 independent of built up.
 Density:
 Continuous measurement.
 :: Measure directly in the tank / pipe.

FTL51H-
943493-9000
 SPK: FQB



Liquiphant M FTL51H

Approval:

- A Non-hazardous area
- D Non-hazardous area, WHG
- B ATEX/NEPSI II 3G EEx nC IIC T6, WHG
- C ATEX/NEPSI II 3G EEx nA II T6, WHG
- G ATEX II 1/2GD Ex ia IIC T6/IECEx zone0/1
- F ATEX II 1/2GD Ex ia IIC T6, WHG/IECEx zone0/1
- H ATEX II 1G Ex ia IIC T6
- J ATEX II 1G Ex ia IIC T6, WHG
- K ATEX II 1/2G EEx d IIC T6/IECEx zone0/1
- L ATEX II 1/2G EEx d IIC T6, WHG
- I ATEX II 1/2G EEx de IIC T6/IECEx zone0/1
- E ATEX II 1/2G EEx de IIC T6, WHG
- P FM IS Cl.I,II,III Div.1 Gr.A-G, zone 0,1,2,20,21,22
- Q FM XP Cl.I,II,III Div.1 Gr.B-G, Gr.A-G if E5 housing is used, zone 1,2,21,22
- R FM NI Cl.I Div.2 Gr.A-D, zone 2
- U CSA General Purpose
- S CSA IS Cl I,II,III Div.1 Gr.A-G, zone 0,1,2
- T CSA XP Cl I,II,III Div.1 Gr.A-G, zone 1,2
- V TIIS Ex ia IIC T3
- W TIIS Ex d IIB T3
- 7 TIIS Ex d IIC T3
- 8 TIIS Ex d IIC T6
- M NEPSI Ex ia IIC T6
- N NEPSI Ex d IIC T6
- Y Special version, TSP-no. to be spec.

Process Connection:

- GW2 Thread ISO228 G1, 316L, install > Accessory weld-in adapter
- TC2 Tri-Clamp ISO2852 DN25-38 (1...1-1/2"), 316L
- TE2 Tri-Clamp ISO2852 DN40-51 (2"), 316L
- TT2 Ingold fitting 25x46mm, 316L
- EE2 Flush mount, 316L, install > Accessory weld-in adapter
- PE2 DRD 65mm, 316L
- UE2 SMS 2" PN25, 316L
- WE2 Varivent N tube DN65-162 PN10, 316L
- MA2 DIN11851 DN32 PN25 slotted-nut, 316L
- MC2 DIN11851 DN40 PN25 slotted-nut, 316L
- ME2 DIN11851 DN50 PN25 slotted-nut, 316L
- HE2 DIN11864-1 A DN50 tube DIN11850, slotted-nut, 316L
- B82 DN25 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
- BA2 DN32 PN6 A, 316L flange EN1092-1 (DIN2527 B)
- BB2 DN32 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
- BC2 DN40 PN6 A, 316L flange EN1092-1 (DIN2527 B)
- BD2 DN40 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
- BE2 DN50 PN6 A, 316L flange EN1092-1 (DIN2527 B)
- BG2 DN50 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
- CG2 DN50 PN25/40 B1, 316L flange EN1092-1 (DIN2527 C)
- BH2 DN65 PN6 A, 316L flange EN1092-1 (DIN2527 B)
- BK2 DN65 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
- BM2 DN80 PN10/16 A, 316L flange EN1092-1 (DIN2527 B)
- BN2 DN80 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
- CN2 DN80 PN25/40 B1, 316L flange EN1092-1 (DIN2527 C)
- BQ2 DN100 PN10/16 A, 316L flange EN1092-1 (DIN2527 B)
- CQ2 DN100 PN10/16 B1, 316L flange EN1092-1 (DIN2527 C)
- BR2 DN100 PN25/40 A, 316L flange EN1092-1 (DIN2527 B)
- A82 1" 150lbs RF, 316/316L flange ANSI B16.5
- AA2 1-1/4" 150lbs RF, 316/316L flange ANSI B16.5
- AC2 1-1/2" 150lbs RF, 316/316L flange ANSI B16.5
- AE2 2" 150lbs RF, 316/316L flange ANSI B16.5
- AF2 2" 300lbs RF, 316/316L flange ANSI B16.5
- AJ2 2-1/2" 300lbs RF, 316/316L flange ANSI B16.5
- AL2 3" 150lbs RF, 316/316L flange ANSI B16.5
- AM2 3" 300lbs RF, 316/316L flange ANSI B16.5

AP2 4" 150lbs RF, 316/316L flange ANSI B16.5
 AQ2 4" 300lbs RF, 316/316L flange ANSI B16.5
 KA2 10K 25A RF, 316L flange JIS B2220
 KC2 10K 40A RF, 316L flange JIS B2220
 KE2 10K 50A RF, 316L flange JIS B2220
 KL2 10K 80A RF, 316L flange JIS B2220
 KP2 10K 100A RF, 316L flange JIS B2220
 YY9 Special version, TSP-no. to be spec.

Probe Length; Type:

BC xxx mm; Ra<1.5um/59uin
 BD xxx mm; Ra<0.3um/12uin
 CC xxx inch; Ra<1.5um/59uin
 CD xxx inch; Ra<0.3um/12uin
 DC L=type II; Ra<1.5um/59uin, Switch point = Liquiphant II compact
 DD L=type II; Ra<0.3um/12uin, Switch point = Liquiphant II compact
 JC xxx mm; Ra<1.5um/59uin + TS= temp. separator
 JD xxx mm; Ra<0.3um/12uin + TS= temp. separator
 KC xxx inch; Ra<1.5um/59uin + TS= temp. separator
 KD xxx inch; Ra<0.3um/12uin + TS= temp. separator
 LC L=type II; Ra<1.5um/59uin + TS= temp. separator Switch point = Liquiphant II compact
 LD L=type II; Ra<0.3um/12uin + TS= temp. separator Switch point = Liquiphant II compact
 RC xxx mm; Ra<1.5um/59uin + PF= press.tight feed through
 RD xxx mm; Ra<0.3um/12uin + PF= press.tight feed through
 SC xxx inch; Ra<1.5um/59uin + PF= press.tight feed through
 SD xxx inch; Ra<0.3um/12uin + PF= press.tight feed through
 TC L=type II; Ra<1.5um/59uin + PF= press.tight feed through, switch point = Liquiphant II compact
 TD L=type II; Ra<0.3um/12uin + PF= press.tight feed through, switch point = Liquiphant II compact
 YY Special version, TSP-no. to be spec.

Electronics; Output:

A FEL50A; PROFIBUS PA
 D FEL50D; Density/Concentration, density electronics w/o WHG approval
 1 FEL51; SIL 2-wire 19-253VAC
 2 FEL52; SIL 3-wire PNP 10-55VDC
 4 FEL54;SIL relay DPDT 19-253VAC/19-55VDC
 5 FEL55; SIL 8/16mA, 11-36VDC
 6 FEL56; SIL NAMUR (L-H signal)
 7 FEL57; SIL 2-wire PFM
 8 FEL58;SIL NAMUR+test button (H-L signal)
 9 Special version, TSP-no. to be spec.

Housing; Cable Entry:

C3 Compact 316L Hygiene IP66/68; cable 5m
 D3 Compact 316L Hygiene IP65; plug Pg11 ISO4400
 E3 Compact 316L Hygiene NEMA4X; plug NPT1/2 ISO4400
 N3 Compact 316L Hygiene IP66/68; plug M12
 G4 F16 Polyester IP66; gland M20
 F4 F16 Polyester IP66; thread G1/2
 E4 F16 Polyester NEMA4X; thread NPT1/2
 N4 F16 Polyester IP66; plug M12
 G6 F15 316L Hygiene IP66; gland M20
 F6 F15 316L Hygiene IP66; thread G1/2
 E6 F15 316L Hygiene NEMA4X; thread NPT1/2
 N6 F15 316L Hygiene IP66; plug M12
 G5 F13/17 Alu IP66; gland M20 (EEx d > thread M20)
 F5 F13/17 Alu IP66; thread G1/2
 E5 F13/17 Alu NEMA4X; thread NPT3/4
 N5 F13/17 Alu IP66; plug M12
 G7 T13 Alu, coated IP66; gland M20, Separate conn. compartment (EEx d > thread M20)
 F7 T13 Alu, coated IP66; thread G1/2, Separate conn. compartment
 E7 T13 Alu, coated IP66; thread NPT3/4, Separate conn. compartment
 Y9 Special version, TSP-no. to be spec.

Additional Option:

- A Basic version
- C EN10204-3.1 material (316L wetted parts) inspection certificate
- D EN10204-3.1 AD2000 material wetted parts, excepting castings inspection certificate
- S GL/ABS marine certificate, max 1600mm
- B CoC-ASME BPE, EN10204-3.1 material (316L wetted parts) inspection certificate
- K Spec.adjustment density H2O
- L Spec.adjustment density H2O,EN10204-3.1 material (316L wetted parts) inspection certificate
- Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.

Densitycontroller FML621; Liquiphant

Function with Liquiphant M and electronic insert FEL50D.

Out of the measurement signal, of the Liquiphant, the density and concentration values are calculated.

:: Calculation of the liquid concentration.

:: Interface measurement.

:: Integrated datalogging.

Input:

4x FEL50D / 0/4-20mA.

Output (without ethernet):

2x 0/4-20mA/pulse.

1x Rel.SPST, 1x loop power supply

Output (with ethernet):

1x Rel.SPST, 1x LPS.

4x LPS = loop power supply.

incl. ReadWin 2000.

FML621-**71027966****SPK: FQH**

Densitycontroller FML621; Liquiphant

Approval:

- A Non-hazardous area
- B ATEX II(1)GD EEx ia IIC
- C FM AIS I,II,III/1/ABCDEF
- D CSA (Ex ia) I,II,III/1/ABCDEF
- E IECEx (Ex ia) IIC

Display; Operating:

- 1 Not selected; w/o push button
- 2 Alphanumeric; 8 push button
- 3 Separat; panel 72x144mm, RS485
- 4 Separat; panel 72x144mm, 2x RS485

Power Supply:

- 1 90-250VAC
- 2 20-36VDC, 20-28VAC

Slot B:

- A Nicht benutzt
- B Input: 2x FEL50D / 0/4-20mA output: 2x 0/4-20mA, 2x digital, 2x relay SPST
- C Input: 2xPt100/500/1000 output: 2x0/4-20mA, 2x digital, 2x relay SPST
- D Input: 4x digital output: 6x relay SPST
- E Input: 2x U, I, TC output: 2x 0/4-20mA/pulse
- G Input: Ex i, 2x FEL50D / 0/4-20mA output: 2x 0/4-20mA, 2x digital, 2x relay SPST
- H Input: Ex i, 2xPt100/500/1000 output: 2x0/4-20mA, 2x digital, 2x relay SPST
- I Input: Ex i, 4x digital output: 6x relay SPST
- J Input: Ex-i, 2x U, I, TC output: 2x 0/4-20mA/pulse

Slot C:

- A Not used
- B Input: 2x FEL50D / 0/4-20mA output: 2x 0/4-20mA, 2x digital, 2x relay SPST
- C Input: 2xPt100/500/1000 output: 2x0/4-20mA, 2x digital, 2x relay SPST

- D Input: 4x digital output: 6x relay SPST
- E Input: 2x U, I, TC output: 2x 0/4-20mA/pulse
- G Input: Ex i, 2x FEL50D / 0/4-20mA output: 2x 0/4-20mA, 2x digital, 2x relay SPST
- H Input: Ex i, 2xPt100/500/1000 output: 2x0/4-20mA, 2x digital, 2x relay SPST
- I Input: Ex i, 4x digital output: 6x relay SPST
- J Input: Ex i, 2x U, I, TC output: 2x 0/4-20mA/pulse

Slot D:

- A Not used
- B Input: 2x FEL50D / 0/4-20mA output: 2x 0/4-20mA, 2x digital, 2x relay SPST
- C Input: 2xPt100/500/1000 output: 2x0/4-20mA, 2x digital, 2x relay SPST
- D Input: 4x digital output: 6x relay SPST
- E Input: 2x U, I, TC output: 2x 0/4-20mA/pulse
- G Input: Ex i, 2x FEL50D / 0/4-20mA output: 2x 0/4-20mA, 2x digital, 2x relay SPST
- H Input: Ex i, 2xPt100/500/1000 output: 2x0/4-20mA, 2x digital, 2x relay SPST
- I Input: Ex i, 4x digital output: 6x relay SPST
- J Input: Ex-i, 2x U, I, TC output: 2x 0/4-20mA/pulse

Software:

- AA Mathematic+ density module
- AB Mathematic + density module + telealarm
- YY Special version, TSP-no. to be spec.

Operation Language:

- A German
- B English
- C French
- D Italian
- E Spanish
- F Dutch
- G Czech

Communication:

- 1 1x RS232 + 1x RS485
- 2 1x RS232 + 1x RS485 + cable
- 3 1x RS232 + PROFIBUS DP slave-modul
- 4 1x RS232 + cable + PROFIBUS DP slave-modul external
- 5 1x RS232 + 2x RS485
- 6 1x RS232 + 2x RS485 + cable
- C 1x RS232 + PROFIBUS DP slave-Module + Ethernet
- D 1x RS232+ PROFIBUS DP slave module+cable+ ethernet
- E 1x RS232 + 2x RS485 + ethernet
- F 1x RS232 + 2x RS485 + ethernet + cable

Option:

- 1 not selected
- 2 Works calib. certif.

>>>Marking: (optional)

- A Tagging (TAG), metal
- B Tagging (TAG), on device
- C Commissioning label, paper
- F Tagging (TAG), by customer

Nivotester FTL325P

Level instrument, point level.
Input: 1/3-channel, 2-wire PFM.
:: Function control.

FTL325P-
52008684

SPK: FQN

Nivotester FTL325P

Approval:

- F ATEX II (1)GD (Ex ia) IIC, WHG, IECEx (Ex ia) IIC



- H ATEX II (1)GD (EEx ia) IIC, WHG, SIL, IECEx (Ex ia) IIC (Liquiphant M/Liquiphant S)
- G ATEX II 3(1)G Ex nC/ A (ia) IIC T4, SIL IECEx zone 2
- O FM IS Cl.I,II,III Div.1 Gr.A-G
- P FM IS Cl.I,II,III Div.1 Gr.A-G, SIL (Liquiphant M/Liquiphant S)
- S CSA IS Cl.I,II,III Div.1 Gr.A-G, NI Cl.I Div.2
- T CSA IS Cl.I,II,III Div.1 Gr.A-G, SIL (Liquiphant M/Liquiphant S)
- V TIIS Ex ia IIC, labeling in Japan
- M NEPSI (Ex ia) IIC
- N NEPSI (Ex ia) IIC, SIL (Liquiphant M/Liquiphant S)

Housing:

- 1 Rail mounting, 22.5mm, 1-channel
- 3 Rail mounting, 45mm, 3-channel
- 9 Special version, TSP-no. to be spec.

Power Supply:

- A 85-253VAC
- E 20-30VAC/20-60VDC
- Y Special version, TSP-no. to be spec.

Switch Output:

- 1 1x SPDT level + 1x SPST alarm
- 3 3x SPDT level + 1x SPST alarm
- 9 Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.

Nivotester FTL670

Level instrument, point level.
Status indication via LED.
Max-point level detection,
intrinsically safe.
Input: 1-channel, 2-wire PFM.
Usage: FDL60/FDL61.
Output: redundant relay circuit.
Racksyst plug-in card, 4PU.
ATEX II (1)G (EEx ia) IIC.
Fail-safe to class 5, acc. DIN V 19250.
Permanent function control.

016501-0040

SPK: FQO



Nivotester FTL670

Nivotester FTL375P

Level instrument, point level.
Input: 1/2/3-channel, 2-wire PFM.
:: Function control.

FTL375P-**52008683**

SPK: FQO



Nivotester FTL375P

Approval:

- F ATEX II (1)GD (EEx ia) IIC, WHG
- H ATEX II (1)GD (EEx ia) IIC, WHG, SIL (Liquiphant M/Liquiphant S)
- V TIIS Ex ia IIC, labeling in Japan

Housing:

- 1 Racksyst 4HP
- 9 Special version, TSP-no. to be spec.

Power Supply:

- E 20-30VDC
- Y Special version, TSP-no. to be spec.

Switch Output:

- 1 1x SPDT level + 1x SPDT alarm
- 2 2x SPDT level + 1x SPDT alarm
- 3 3x SPDT level
- 9 Special version, TSP-no. to be spec.

Densitycontroller FML621A, Accessory**FML621A-****71028997**

SPK: FQR



Densitycontroller FML621A, Accessory

Description:

- AA Display- and operating keys: in offset housing for panel mounting 144x72mm
- CA Extension card 2x U, I, TC Out. 2x0/4-20mA Imp., 2x Dig, 2x Rel. SPST
- CB Extension card 2x U, I, TC, Ex approval Out. 2x0/4-20mA Imp., 2x Dig, 2x Rel. SPST
- DA Extension card digital, 6x dig. In, 6x Rel. Out, cpl. incl. terminal + fixing frame
- DB Extension card digital ATEX approval, 6x dig. In, 6x Rel. Out, cpl. incl. terminal + fixing frame
- TA Extension card temperature, (Pt100/Pt500/Pt1000) cpl. incl. connector + fixing frame
- TB Extension card temp. ATEX approval, (Pt100/500/1000) cpl. incl. terminals
- UA Extension card universal, (PFM/pulse/analog/loop power) cpl. incl. connector + fixing frame
- UB Extension card univ. ATEX approval, (PFM/pulse/analog/loop power) cpl. incl. terminal

Sliding sleeve 100bar NPT1-1/2, 316L 3.1

Switch point adjustment.
Max 100bar process pressure.
:: Disassembly protect. under pressure.
Material: 316L.
Inspection cert. EN10204-3.1 material
(316L wetted parts).
Usage: FTL51/FTL71.

52011883

SPK: FQS

Sliding sleeve 100bar NPT1-1/2, 316L 3.1

Sliding sleeve NPT1-1/2, 316L

Switch point adjustment
pressureless condition.
Material: 316L.
Usage: FTL51/FTL71.

52003981

SPK: FQS

Sliding sleeve NPT1-1/2, 316L

Sliding sleeve 100bar NPT1-1/2, AlloyC4

Switch point adjustment.
Max 100bar process pressure.
:: Disassembly protect. under pressure. **52003670**
Material: AlloyC4.
Usage: FTL51/FTL71. **SPK: FQS**

Sliding sleeve 100bar NPT1-1/2, AlloyC4

Weld-in adapter Rd52, 316L 3.1

Flush mount process connection.
Usage: FTL20H_020_UPJ,
FTL5xH_020_EE2. **52006909**
Material: 316L.
Inspection cert. EN10204-3.1 material **SPK: FQS**
(316L wetted parts).

Weld-in adapter Rd52, 316L 3.1

Sliding sleeve 100bar G1, 316L 3.1

Switch point adjustment.
Max 100bar process pressure.
:: Disassembly protect. under pressure. **52011880**
Material: 316L.
Inspection cert. EN10204-3.1 material **SPK: FQS**
(316L wetted parts).
Usage: FTL51/FTL71.

Sliding sleeve 100bar G1, 316L 3.1

Sliding sleeve 100bar NPT1, 316L 3.1

Switch point adjustment.
Max 100bar process pressure.
:: Disassembly protect. under pressure. **52011881**
Material: 316L.
Inspection cert. EN10204-3.1 material **SPK: FQS**
(316L wetted parts).
Usage: FTL51/FTL71.

Sliding sleeve 100bar NPT1, 316L 3.1

Sliding sleeve 100bar G1-1/2, 316L 3.1

Switch point adjustment.
Max 100bar process pressure.
:: Disassembly protect. under pressure. **52011882**
Material: 316L.
Inspection cert. EN10204-3.1 material **SPK: FQS**
(316L wetted parts).
Usage: FTL51/FTL71.

Sliding sleeve 100bar G1-1/2, 316L 3.1

Sliding sleeve G1, 316L 3.1

Switch point adjustment
pressureless condition.

Material: 316L.

Inspection cert. EN10204-3.1 material
(316L wetted parts).

Usage: FTL51/FTL71.

52011888

SPK: FQS

Sliding sleeve G1, 316L 3.1

Sliding sleeve 100bar G1-1/2, 316L

Switch point adjustment.

Max 100bar process pressure.

:: Disassembly protect. under pressure.

Material: 316L.

Usage: FTL51/FTL71.

52003665

SPK: FQS

Sliding sleeve 100bar G1-1/2, 316L

Weld-in adapter Rd52

Flush mount process connection.

Usage: FTL5xH_020_EE2,

FTL20H_020_UPJ,

FTL330H/330L_020_F.

Material: 316L.

52001047

SPK: FQS

Weld-in adapter Rd52

Weld-in adapter G1, d=60, 316L

Flush mount process connection.

Usage: FTL260_020_0,

FTL20_020_7,

FTL20H_020_GEJ,

FTL330H/330L_020_G,

FTL5x/5xH_020_GW2,

FMI51/52_050_GWJ,

FTI51/52_050_GWJ,

PMP135_020_N,

PTP35_070_BB,

TR44/45_010_EA,

TMR35_030_AD.

Material: 316L.

Seal: Silicone O-ring.

52001051

SPK: FQS

Weld-in adapter G1, d=60, 316L

Weld-in adapter G3/4 d=55, 316L

Flush mount process connection.

Usage: FTL50/50H_020_GQ2,
TMR35_030_AB.

52001052

Material: 316L.

Seal: Silicone O-ring.

SPK: FQS

Weld-in adapter G3/4 d=55, 316L

Weld-in adapter G1, adjustable, 316L

Flush mount process connection.

Usage: FTL260_020_0,

FTL20_020_7,

52001221

FTL20H_020_GEJ,

FTL330H/330L_020_G,

SPK: FQS

FTL5x/5xH_020_GW2,

Liquiphant is adjustable.

Material: 316L.

Seal: Silicone O-ring.

Weld-in adapter G1, adjustable, 316L

Weld-in adapter DRD DN50, 316L

Flush mount process connection.

Material: 316L.

Seal: PTFE flat.

52002041

Usage: FTL5xH_020_PE2,

PMC71_070_TK, PMP75_070_TK,

SPK: FQS

FMB70_070_TK, FMD78_080_TK,

FMB50_110_TIJ, PMC51_110_TIJ,

PMP51_110_TIJ, PMP55_110_TIJ.

Weld-in adapter DRD DN50, 316L

Sliding sleeve NPT1, 316L

Switch point adjustment

pressureless condition.

Material: 316L.

52003979

Usage: FTL51/FTL71.

SPK: FQS

Sliding sleeve NPT1, 316L

Sliding sleeve 100bar G1, AlloyC4

Switch point adjustment.

Max 100bar process pressure.

:: Disassembly protect. under pressure.

52003664

Material: AlloyC4.

Usage: FTL51/FTL71.

SPK: FQS

Sliding sleeve 100bar G1, AlloyC4

Sliding sleeve G1-1/2, 316L

Switch point adjustment
pressureless condition.
Material: 316L.
Usage: FTL51/FTL71.

52003980

SPK: FQS

Sliding sleeve G1-1/2, 316L

Sliding sleeve 100bar G1-1/2, AlloyC4

Switch point adjustment.
Max 100bar process pressure.
:: Disassembly protect. under pressure.
Material: AlloyC4.
Usage: FTL51/FTL71.

52003666

SPK: FQS

Sliding sleeve 100bar G1-1/2, AlloyC4

Sliding sleeve 100bar NPT1, 316L

Switch point adjustment.
Max 100bar process pressure.
:: Disassembly protect. under pressure.
Material: 316L.
Usage: FTL51/FTL71.

52003667

SPK: FQS

Sliding sleeve 100bar NPT1, 316L

Sliding sleeve 100bar NPT1, AlloyC4

Switch point adjustment.
Max 100bar process pressure.
:: Disassembly protect. under pressure.
Material: AlloyC4.
Usage: FTL51/FTL71.

52003668

SPK: FQS

Sliding sleeve 100bar NPT1, AlloyC4

Sliding sleeve 100bar NPT1-1/2, 316L

Switch point adjustment.
Max 100bar process pressure.
:: Disassembly protect. under pressure. **52003669**
Material: 316L.
Usage: FTL51/FTL71. **SPK: FQS**

Sliding sleeve 100bar NPT1-1/2, 316L

Sliding sleeve NPT1-1/2, 316L 3.1

Switch point adjustment
pressureless condition. **52011891**
Material: 316L.
Inspection cert. EN10204-3.1 material
(316L wetted parts). **SPK: FQS**
Usage: FTL51/FTL71.

Sliding sleeve NPT1-1/2, 316L 3.1

Sliding sleeve G1, 316L

Switch point adjustment
pressureless condition. **52003978**
Material: 316L.
Usage: FTL51/FTL71. **SPK: FQS**

Sliding sleeve G1, 316L

Sliding sleeve 100bar G1, 316L

Switch point adjustment.
Max 100bar process pressure.
:: Disassembly protect. under pressure. **52003663**
Material: 316L.
Usage: FTL51/FTL71. **SPK: FQS**

Sliding sleeve 100bar G1, 316L

Flange 92x92 G1, 304

Usage: Process connection G1.
Material: 304. **918158-0000**
SPK: FQS

Flange 92x92 G1, 304

Sliding sleeve G1, AlloyC22, 3.1

Switch point adjustment.
Max 100bar process pressure.
:: Disassembly protect. under pressure. **71118691**
Material: AlloyC4.
Inspection cert. EN10204-3.1 material **SPK: FQS**
(AlloyC22 wetted parts).
Usage: FTL51/FTL71.

Sliding sleeve G1, AlloyC22, 3.1

Sliding sleeve NPT1, 316L 3.1

Switch point adjustment
pressureless condition. **52011889**
Material: 316L.
Inspection cert. EN10204-3.1 material **SPK: FQS**
(316L wetted parts).
Usage: FTL51/FTL71.

Sliding sleeve NPT1, 316L 3.1

Sliding sleeve NPT1, AlloyC22, 3.1

Switch point adjustment.
Max 100bar process pressure.
:: Disassembly protect. under pressure. **71118694**
Material: AlloyC22.
Inspection cert. EN10204-3.1 material **SPK: FQS**
(AlloyC22 wetted parts).
Usage: FTL51/FTL71.

Sliding sleeve NPT1, AlloyC22, 3.1

Sliding sleeve NPT1-1/2, AlloyC22, 3.1

Switch point adjustment.
Max 100bar process pressure.
:: Disassembly protect. under pressure. **71118695**
Material: AlloyC22.
Inspection cert. EN10204-3.1 material **SPK: FQS**
(AlloyC22 wetted parts).
Usage: FTL51/FTL71.

Sliding sleeve NPT1-1/2, AlloyC22, 3.1

Weld-in adapter G1, 304

Flush mount process connection G1.
Material: 304.
Seal: O-ring FKM.
Usage: Liquiphant.

917969-1000

SPK: FQS

Weld-in adapter G1, 304

Sliding sleeve G1-1/2, 316L 3.1

Switch point adjustment
pressureless condition.
Material: 316L.
Inspection cert. EN10204-3.1 material
(316L wetted parts).
Usage: FTL51/FTL71.

52011890

SPK: FQS

Sliding sleeve G1-1/2, 316L 3.1

Flange ANSI RF2/150psi G1, 316Ti

Usage: Process connection G1.
Material: 316Ti.

918144-0000

SPK: FQS

Flange ANSI RF2/150psi G1, 316Ti

Weld-in adapter G3/4, d=29, 316L, 3.1

Flush mount process connection.
Usage: FTL20_020_1,
FTL20H_020_GDJ.
W/o flange.
Material: 316L, EHEDG compliant.
Seal: Silicone O-ring.
Inspection cert. EN10204-3.1 material
(316L wetted parts).

52028295

SPK: FQS

Weld-in adapter G3/4, d=29, 316L, 3.1

Sliding sleeve G1-1/2, D29 316Ti

Switch point adjustment.
Material: 316Ti.
Usage: FDL61.

918161-0000

SPK: FQS

Sliding sleeve G1-1/2, D29 316Ti

Protection cover, F6/F10

Material: PA.

942262-0000

SPK: FQS

Protection cover, F6/F10

Sliding sleeve 40bar G1-1/2, 316Ti

Switch point adjustment.

Max 40bar process pressure.

:: Disassembly protect. under pressure.

Material: 316Ti.

Usage: FDL61.

943090-0001

SPK: FQS

Sliding sleeve 40bar G1-1/2, 316Ti

Sliding sleeve 40bar G1-1/2, AlloyC4

Switch point adjustment.

Max 40bar process pressure.

:: Disassembly protect. under pressure.

Material: AlloyC4.

Usage: FDL61.

943090-0003

SPK: FQS

Sliding sleeve 40bar G1-1/2, AlloyC4

Sliding sleeve 40bar NPT1-1/2, 316Ti

Switch point adjustment.

Max 40bar process pressure.

:: Disassembly protect. under pressure.

Material: 316Ti.

Usage: FDL61.

943090-0101

SPK: FQS

Sliding sleeve 40bar NPT1-1/2, 316Ti

Sliding sleeve 40bar NPT1-1/2, AlloyC4

Switch point adjustment.

Max 40bar process pressure.

:: Disassembly protect. under pressure.

Material: AlloyC4.

Usage: FDL61.

943090-0103

SPK: FQS

Sliding sleeve 40bar NPT1-1/2, AlloyC4

Flange DIN B DN50/PN40, G1, 316Ti

Usage: Process connection G1.

Material: 316Ti.

918143-0000

SPK: FQS

Flange DIN B DN50/PN40, G1, 316Ti

Weld-in adapter G1, d=60, 316L, 3.1

Flush mount process connection.

Usage: FTL260_020_0,

FTL20H_020_GEJ,

FTL5x/5xH_020_GW2/GWJ,

FMI51/52_050_GWJ,

FTI51/52_050_GWJ,

PMP135_020_N,

PTP35_070_BB,

TR44/45_010_EA,

TMR35_030_AD.

Material: 316L.

Seal: Silicone O-ring.

Inspection cert. EN10204-3.1 material
(316L wetted parts).

52011896

SPK: FQS

Weld-in adapter G1, d=60, 316L, 3.1

Weld-in adapter G3/4, 316L 3.1

Flush mount process connection.

Usage: FTL50/50H_020_GQ2,

TMR35_030_AB.

Material: 316L.

Seal: Silicone O-ring.

Inspection cert. EN10204-3.1 material
(316L wetted parts).

52011897

SPK: FQS

Weld-in adapter G3/4, 316L 3.1

Union nut DIN11851, F25, SS

Flush mount weld in adapter 52001047.
Usage: FTL20H_020_UPJ.

52021715

SPK: FQS

Union nut DIN11851, F25, SS

Weld-in adapter G3/4 d=50, 316L, 3.1

Flush mount process connection

Usage: FTL20_020_1,
FTL20H_020_GDJ,
FMI51_050_GQJ,
FTI51_050_GQJ,
TMR35_030_AC.

52018765

SPK: FQS

Material: 316L, EHEDG compliant.

Seal: Silicone O-ring.

Inspection cert. EN10204-3.1 material
(316L wetted parts).

Weld-in adapter G3/4 d=50, 316L, 3.1

Weld-in adapter G1, adjustable,316L 3.1

Flush mount process connection.

Usage: FTL260_020_0,
FTL20H_020_GEJ,
FTL5x/5xH_020_GW2,
Liquiphant is adjustable.

52011898

SPK: FQS

Material: 316L.

Seal: Silicone O-ring.

Inspection cert. EN10204-3.1 material
(316L wetted parts).

Weld-in adapter G1, adjustable,316L 3.1

Weld-in adapter DRD DN50, 316L 3.1

Flush mount process connection.

Material: 316L.

Seal: PTFE flat.

Inspection cert. EN10204-3.1 material
(316L wetted parts).

52011899

SPK: FQS

Usage: FTL5xH_020_PE2,

PMC71_070_TK, PMP75_070_TK,

FMB70_070_TK, FMD78_080_TK,

FMB50_110_TIJ, PMC51_110_TIJ,

PMP51_110_TIJ, PMP55_110_TIJ.

Weld-in adapter DRD DN50, 316L 3.1

Sliding sleeve G1-1/2, AlloyC22, 3.1

Switch point adjustment.

Max 100bar process pressure.

:: Disassembly protect. under pressure.

71118693

Material: AlloyC22.

Inspection cert. EN10204-3.1 material

SPK: FQS

(AlloyC22 wetted parts).

Usage: FTL51/FTL71.

Sliding sleeve G1-1/2, AlloyC22, 3.1

Housing Field, R4 182x180x165, 5xM20, PC

Protection housing Minitec.

Synthetic housing + transparent cover.

Protection IP66.

52010132

4x22.5mm / 2x45mm.

SPK: FQU

Housing Field, R4 182x180x165, 5xM20, PC

Socket wrench 41AF

Usage: Mounting FTL260/330L/330H.

942667-0000

SPK: FQU

Socket wrench 41AF

Cable 4x0,34, box M12,Cu Sn/Ni,90o,L=5m

M12 socket for plug.

5m cable PVC, Cu Sn/Ni lock.

52010285

SPK: FQU

Cable 4x0,34, box M12,Cu Sn/Ni,90o,L=5m

Socket wrench 32AF

Usage: FTL20/FTL20H.

52010156

SPK: FQU

Socket wrench 32AF

Cable 4x0,34, box M12, 316L, 90o, L=5m

M12x1 plug.
5m cable PVC, 316L lock.
Especially for sanitary applications.

52024216

SPK: FQU

Cable 4x0,34, box M12, 316L, 90o, L=5m

Liquiphant T FTL20H

Measurement: Point Level, Vibronic.
Food.
Polished surface.
Application: liquids.
:: Suitable on narrow mount. condition.
:: Millimeter precision switch point.
:: Application safety:
independent of liquid attribute.

FTL20H-**52018579**

SPK: FQU

Liquiphant T FTL20H

Approval:

- 0 Non-hazardous area, WHG, leakage-detection
- 3 CSA General Purpose, CSA C/US
- 9 Special version, TSP-no. to be spec.

Process Connection:

- GCJ Thread ISO228 G1/2, 316L
- GDJ Thread ISO228 G3/4, 316L, install > Accessory weld-in adapter
- GEJ Thread ISO228 G1, 316L, install > Accessory weld-in adapter
- RCJ Thread ANSI NPT1/2, 316L
- RDJ Thread ANSI NPT3/4, 316L
- RRJ Thread EN10226 R1/2, 316L
- RSJ Thread EN10226 R3/4, 316L
- TCJ Tri-Clamp ISO2852 DN25-38 (1...1-1/2"), 316L
- TDJ Tri-Clamp ISO2852 DN40-51 (2"), 316L
- UPJ Flush mount, 316L, install > Accessory weld-in adapter 1" 52001047
- MNJ DIN11851 DN25 PN40 slotted-nut, 316L
- MPJ DIN11851 DN32 PN40 slotted-nut, 316L
- MQJ DIN11851 DN40 PN40 slotted-nut, 316L
- YY9 Special version, TSP-no. to be spec.

Switch Output:

- 1 2-wire 19-253VAC
- 2 3-wire PNP 10-35VDC
- 3 ASI Bus
- 9 Special version, TSP-no. to be spec.

Application; Cable Entry:

- B 150oC; plug ISO4400 Pg11, IP65/67
- C 150oC; plug ISO4400 NPT1/2, IP65
- D 150oC; plug M12, IP67
- E 150oC; plug QUICKON, IP65
- F 150oC; plug M12, IP69K
- Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.



Cable 4x0,34, box M12, 316L,LED,90o,L=5m

M12 socket for plug + integrated LED.
5m cable PVC, 316L lock.
Especially for sanitary applications.
Usage: device + switch output.

52018763

SPK: FQU

Cable 4x0,34, box M12, 316L,LED,90o,L=5m

Liquiphant T FTL20

Measurement: Point Level, Vibronic.
Application: liquids.
:: Suitable on narrow mount. condition.
:: Millimeter precision switch point.
:: Application safety:
independent of liquid attribute.

FTL20-**52008741**

SPK: FQU



Liquiphant T FTL20

Approval:

- 0 Non-hazardous area, WHG, leakage-detection
- 3 CSA General Purpose, CSA C/US
- 9 Special version, TSP-no. to be spec.

Process Connection:

- 0 Thread ISO228 G1/2, 316L
- 1 Thread ISO228 G3/4, 316L, install > Accessory weld-in adapter
- 6 Thread ISO228 G1, 316L
- 7 Thread ISO228 G1, 316L, install > Accessory weld-in adapter
- 2 Thread ANSI NPT1/2, 316L
- 3 Thread ANSI NPT3/4, 316L
- 4 Thread EN10226 R1/2, 316L
- 5 Thread EN10226 R3/4, 316L
- 9 Special version, TSP-no. to be spec.

Switch Output:

- 1 2-wire 19-253VAC
- 2 3-wire PNP 10-35VDC
- 3 ASI Bus
- 9 Special version, TSP-no. to be spec.

Application; Cable Entry:

- 0 100oC; plug ISO4400 Pg11, IP65/67
- 4 100oC; plug ISO4400 NPT1/2, IP65
- 5 100oC; plug M12, IP67
- 6 100oC; plug QUICKON, IP65
- B 150oC; plug ISO4400 Pg11, IP65/67
- C 150oC; plug ISO4400 NPT1/2, IP65
- D 150oC; plug M12, IP67
- E 150oC; plug QUICKON, IP65
- 9 Special version, TSP-no. to be spec.

Nivotester FTL325N

Level instrument, point level.
Input: 1/3-channel, 2-wire NAMUR.

**FTL325N-
52008682**

SPK: FQU



Nivotester FTL325N

Approval:

- F ATEX II (1)GD (EEx ia) IIC, WHG, IECEx (Ex ia) IIC
- H ATEX II (1)GD (EEx ia) IIC, WHG, SIL, IECEx (Ex ia) IIC (Liquiphant M/Liquiphant S)
- G ATEX II 3(1)G Ex nC/ A (ia) IIC T4, SIL IECEx Zone 2
- O FM IS Cl.I,II,III Div.1 Gr.A-G
- P FM IS Cl.I,II,III Div.1 Gr.A-G, SIL (Liquiphant M/Liquiphant S)
- S CSA IS Cl.I,II,III Div.1 Gr.A-G, NI Cl.I Div.2
- T CSA IS Cl.I,II,III Div.1 Gr.A-G, SIL (Liquiphant M/Liquiphant S)
- M NEPSI (Ex ia) IIC
- N NEPSI (Ex ia) IIC, SIL (Liquiphant M/Liquiphant S)

Housing:

- 1 Rail mounting, 22.5mm, 1-channel
- 3 Rail mounting, 45mm, 3-channel
- 9 Special version, TSP-no. to be spec.

Power Supply:

- A 85-253VAC
- E 20-30VAC/20-60VDC
- Y Special version, TSP-no. to be spec.

Switch Output:

- 1 1x SPDT level + 1x SPST alarm
- 3 3x SPDT level + 1x SPST alarm
- 9 Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.

Nivotester FTL375N

Level instrument, point level.
Input: 1/2/3-channel, 2-wire NAMUR.

**FTL375N-
52008681**

SPK: FQU



Nivotester FTL375N

Approval:

- F ATEX II (1)GD (EEx ia) IIC

Housing:

- 1 Racksyst 4HP
- 9 Special version, TSP-no. to be spec.

Power Supply:

- E 20-30VDC
- Y Special version, TSP-no. to be spec.

Switch Output:

- 1 1x SPDT level + 1x SPDT alarm
- 2 2x SPDT level + 1x SPDT alarm
- 3 3x SPDT level
- 9 Special version, TSP-no. to be spec.

Liquiphant T FTL260

Point level switch, vibronic.
Application: liquids.
:: Liquid independent.
:: Approved in millions of application.
:: Not effected by build up.
Stainless Steel electronic housing.
:: Corrosion resistant.
:: Small mounting space d=40mm.
:: Status switch visible from outside.
Sensor: 130mm/5inch; 316Ti.

FTL260-
942202-9000

SPK: FQU



Liquiphant T FTL260

Approval:

- 0 Non-hazardous area
- 1 Non-hazardous area, WHG
- 3 CSA General Purpose
- 9 Special version, TSP-no. to be spec.

Process Connection:

- 0 Thread ISO228 G1, 316Ti
- 1 Thread ANSI NPT1, 316Ti
- 2 Thread EN10226 R1, 316Ti
- 3 Float flange, 92mmx92mm, SS

Switch Output:

- 1 2-wire 19-253VAC
- 2 3-wire PNP 10-55VDC

Cable Entry:

- 0 Plug ISO4400 Pg11, IP65/67
- 2 Cable 5m, IP66/68 NEMA6P
- 4 Plug ISO4400 NPT1/2, NEMA4X
- 9 Special version, TSP-no. to be spec.

Cover F16 (KT73) transparent PA12

Cover transparent.
Usage: Polyester housing F16.

943461-0001

SPK: FQW

Cover F16 (KT73) transparent PA12

Soliphant M FTM50

Point level switch, vibronic.
Application: solids.
Material: 316L.
Grain size <=10mm.
Application: generatin dust, fluidised,
powdery to fine-grained bulk solids.
:: Independent of solids characteristic.
:: No maintenance needed.

FTM50-
52023172
SPK: FPA



Soliphant M FTM50

Approval:

- A Non-hazardous area
- 1 ATEX II 1D, 1/2GD, 1/3GD Ex ia IIC T6
- 2 ATEX II 1/2D Ex tD
- 3 ATEX II 3D, ATEX II 3G EEx nA/nL/nC
- 4 ATEX II 1/3D Ex tD
- 5 ATEX II 1D,ATEX II 1/2G Ex de(ia)IIC T6
- 6 ATEX II 1D,ATEX II 1/2G Ex d(ia) IIC T6
- 7 ATEX II 1G/D Ex ia IIC T6, XA Note safety instruction (XA)
- C CSA General Purpose, CSA C/US
- D FM DIP-AIS Cl.II,III Div1 Gr.E-G+CSA DIP Cl.II,III Div.1+2 Gr.E-G, zone 2,21,22
- F FM IS Cl.I,II,III Div.1 Gr.A-G+NI+CSA IS Cl.I,II,III Div.1+2 Gr.A-G, FM: zone 0,1,2,20,21,22/CSA: zone 0,1,2
- H FM XP-AIS Cl.I Div.1 Gr.A-D+CSA XP Cl.I Div.1+2 Gr.A-D, FM: zone 1,2,21,22/CSA: zone 1,2
- G IEC Ex tD A20/A21
- E IEC Ex iaD A20, IEC Ex ia IIC T6
- T TIIS Ex ia IIC T3
- S TIIS Ex d IIC T3
- X NEPSI Ex ia IIC T2-T6
- Z NEPSI Ex d IIC T2-T6
- 8 NEPSI DIP A20/A21 TA, T* IP66
- Y Special version, TSP-no. to be spec.

Process Connection:

- GG Thread EN10226 R1-1/2
- GJ Thread ANSI NPT1-1/2, d=1.67" sensor
- GK Thread ANSI NPT1-1/4, d=1.38" sensor
- GX Thread ANSI NPT1-1/2, d=1.38" sensor suitable for ISA nozzle
- TD Tri-Clamp ISO2852 DN40-51 (2")
- B3 DN50 PN25/40 A flange EN1092-1 (DIN2527 B)
- BS DN80 PN10/16 A flange EN1092-1 (DIN2527 B)
- BT DN100 PN10/16 A flange EN1092-1 (DIN2527 B)
- AF 2" 150lbs RF flange ANSI B16.5
- AG 3" 150lbs RF flange ANSI B16.5
- AH 4" 150lbs RF flange ANSI B16.5
- KF 10K 50A RF flange JIS B2220
- KG 10K 80A RF flange JIS B2220
- KH 10K 100A RF flange JIS B2220
- YY Special version, TSP-no. to be spec.

Material; Surface Refinement:

- 2 316L; Ra<=3.2um/126uin, w/o
- 5 316L; Ra<=0.76um/30uin, fork electro-polished
- 7 316L;Ra<=0.76um/30uin, fork + tube electro-polished
- A PTFE>316L; fork coated, reduces build-up, no corrosion safety
- B PTFE>316L; completely coated, reduces build-up, no corrosion safety
- C ETFE>316L; completely coated
- 9 Special version, TSP-no. to be spec.

Fork; Bulk Density:

- A 155mm/6inch; min 10g/l
- K 100mm/4inch; min 50g/l
- Y Special version, TSP-no. to be spec.

Electronics; Output:

- 1 FEM51; 2-wire 19-253VAC
- 2 FEM52; 3-wire PNP 10-55VDC
- 4 FEM54; relay DPDT, 19-253VAC/55VDC
- 5 FEM55; 8/16mA, 11-36VDC
- 7 FEM57; 2-wire PFM
- 8 FEM58; NAMUR + test button (H-L signal)
- 9 Special version, TSP-no. to be spec.

Type of Probe:

- A Compact
- D 6m cable > separate housing
- G 6m cable, armoured > separate housing
- E 20ft cable > separate housing
- H 20ft cable, armoured > separate housing
- Y Special version, TSP-no. to be spec.

Housing:

- 1 F16 Polyester IP66/67 NEMA4X + transparent cover
- 3 F17 Alu IP66/67 NEMA4X
- 5 F13 Alu IP66/68 NEMA4X
- 7 F15 316L Hygiene IP66/67 NEMA4X
- H T13 Alu IP66/68 NEMA4X, separate conn. compartment
- Y Special version, TSP-no. to be spec.

Cable Entry:

- 2 Gland M20 (Ex d > thread M20)
- 3 Thread NPT1/2
- 4 Thread G1/2
- 7 Thread NPT3/4
- 9 Special version, TSP-no. to be spec.

Additional Option 1:

- A Not selected
- G Glass cover
- S SIL declaration of conformity
- R Glass cover, SIL declaration of conformity
- Y Special version, TSP-no. to be spec.

Additional Option 2:

- A Not selected
- C EN10204-3.1 material (wetted parts) inspection certificate
- D Temp. separator <=150oC/300oF
- E Temp. separator <=150oC/300oF, EN10204- 3.1 material (wetted parts) inspection certificate
- J High temperature <=230oC/450oF
- K High temperature <=230oC/450oF, EN10204- 3.1 material (wetted parts) inspection certificate
- F High temperature <=280oC/540oF
- H High temperature <=280oC/540oF, EN10204- 3.1 material (wetted parts) inspection certificate
- Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.

Soliphant M FTM51

Point level switch, vibronic.
Application: solids.
Extension tube.
Material: 316L.
Grain size <=10mm.
Application: generatin dust, fluidised,
powdery to fine-grained bulk solids.
:: Independent of solids characteristic.
:: No maintenance needed.

Soliphant M FTM51

Approval:

FTM51-
52023173
SPK: FPB



- A Non-hazardous area
- 1 ATEX II 1D, 1/2GD, 1/3GD Ex ia IIC T6
- 2 ATEX II 1/2D Ex tD
- 3 ATEX II 3D, ATEX II 3G EEx nA/nL/nC
- 4 ATEX II 1/3D Ex tD
- 5 ATEX II 1D, ATEX II 1/2G Ex de(ia) IIC T6
- 6 ATEX II 1D, ATEX II 1/2G Ex d(ia) IIC T6
- 7 ATEX II 1G/D Ex ia IIC T6, XA Note safety instruction (XA)
- C CSA General Purpose, CSA C/US
- D FM DIP-AIS Cl.II, III Div1 Gr.E-G+CSA DIP Cl.II, III Div.1+2 Gr.E-G, FM: zone 21,22
- F FM IS Cl.I, II, III Div.1 Gr.A-G+NI+CSA IS Cl.I, II, III Div.1+2 Gr.A-G, FM: zone 0,1,2,20,21,22/CSA: zone 0,1,2

- H FM XP-AIS Cl.I Div.1 Gr.A-D+CSA XP Cl.I Div.1+2 Gr.A-D, FM: zone 1,2,21,22/CSA: zone 1,2

- G IEC Ex tD A20/A21
- E IEC Ex iaD A20, IEC Ex ia IIC T6
- T TIIS Ex ia IIC T3
- S TIIS Ex d(ia) IIC T4
- X NEPSI Ex ia IIC T2-T6
- Z NEPSI Ex d(ia) IIC T2-T6
- 8 NEPSI DIP A20/A21 TA, T* IP66
- Y Special version, TSP-no. to be spec.

Process Connection:

- GG Thread EN10226 R1-1/2
- GJ Thread ANSI NPT1-1/2, d=1.67" sensor suitable for sliding sleeve
- GK Thread ANSI NPT1-1/4, d=1.38" sensor
- GX Thread ANSI NPT1-1/2, d=1.38" sensor suitable for ISA nozzle
- TD Tri-Clamp ISO2852 DN40-51 (2")
- B3 DN50 PN25/40 A flange EN1092-1 (DIN2527 B)
- BS DN80 PN10/16 A flange EN1092-1 (DIN2527 B)
- BT DN100 PN10/16 A flange EN1092-1 (DIN2527 B)
- AF 2" 150lbs RF flange ANSI B16.5
- AG 3" 150lbs RF flange ANSI B16.5
- AH 4" 150lbs RF flange ANSI B16.5
- KF 10K 50A RF flange JIS B2220
- KG 10K 80A RF flange JIS B2220
- KH 10K 100A RF flange JIS B2220
- YY Special version, TSP-no. to be spec.

Material; Surface Refinement:

- 2 316L; Ra<=3.2um/126uin, w/o
- 5 316L; Ra<=0.76um/30uin, fork electro-polished
- 7 316L; Ra<=0.76um/30uin, fork + tube electro-polished
- A PTFE>316L; fork coated, reduces build-up, no corrosion safety
- B PTFE>316L; completely coated, reduces build-up, no corrosion safety
- C ETFE>316L; completely coated
- 9 Special version, TSP-no. to be spec.

Overall Length; Bulk Density:

- L xxx mm; min 10g/l
- M xxx mm; min 50g/l
- S xxx mm; min 10g/l, surface refinem.
- T xxx mm; min 50g/l, surface refinem.
- P xxx in; min 10g/l
- Q xxx in; min 50g/l
- U xxx in; min 10g/l, surface refinem.
- V xxx in; min 50g/l, surface refinem.
- Y Special version, TSP-no. to be spec.

Electronics; Output:

- 1 FEM51; 2-wire 19-253VAC
- 2 FEM52; 3-wire PNP 10-55VDC
- 4 FEM54; relay DPDT, 19-253VAC/55VDC
- 5 FEM55; 8/16mA, 11-36VDC
- 7 FEM57; 2-wire PFM
- 8 FEM58; NAMUR + test button (H-L signal)
- 9 Special version, TSP-no. to be spec.

Type of Probe:

- A Compact
- D 6m cable > separate housing
- G 6m cable, armoured > separate housing
- E 20ft cable > separate housing
- H 20ft cable, armoured > separate housing
- Y Special version, TSP-no. to be spec.

Housing:

- 1 F16 Polyester IP66/67 NEMA4X + transparent cover
- 3 F17 Alu IP66/67 NEMA4X
- 5 F13 Alu IP66/68 NEMA4X
- 7 F15 316L Hygiene IP66/67 NEMA4X
- H T13 Alu IP66/68 NEMA4X, separate conn. compartment
- Y Special version, TSP-no. to be spec.

Cable Entry:

- 2 Gland M20 (Ex d > thread M20)
- 3 Thread NPT1/2
- 4 Thread G1/2
- 7 Thread NPT3/4
- 9 Special version, TSP-no. to be spec.

Additional Option 1:

- A Not selected
- G Glass cover
- S SIL declaration of conformity
- R Glass cover, SIL declaration of conformity
- Y Special version, TSP-no. to be spec.

Additional Option 2:

- A Not selected
- C EN10204-3.1 material (wetted parts) inspection certificate
- D Temp. separator <=150oC/300oF
- E Temp. separator <=150oC/300oF, EN10204- 3.1 material (wetted parts) inspection certificate
- J High temperature <=230oC/450oF
- K High temperature <=230oC/450oF, EN10204- 3.1 material (wetted parts) inspection certificate
- F High temperature <=280oC/540oF
- H High temperature <=280oC/540oF, EN10204- 3.1 material (wetted parts) inspection certificate
- Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.

Soliphant M FTM52

Point level switch, vibronic.
Extension cable.
Application: solids.
Material: 316L.
Grain size <=10mm.
Application: generatin dust, fluidised,
powdery to fine-grained bulk solids.
:: Independent of solids characteristic.
:: No maintenance needed.

Soliphant M FTM52

**FTM52-
52023174**

SPK: FPC



- Approval:**
- A Non-hazardous area
 - 1 ATEX II 1D, 1/2GD, 1/3GD Ex ia IIC T6
 - 2 ATEX II 1/2D Ex tD (iaD)
 - 3 ATEX II 3D, ATEX II 3G EEx nA/nL/nC
 - 4 ATEX II 1/3D Ex tD (iaD)
 - 5 ATEX II 1D,ATEX II 1/2G Ex de(ia) IIC T6
 - 6 ATEX II 1D,ATEX II 1/2G Ex d(ia) IIC T6

- 7 ATEX II 1G/D Ex ia IIC T6, XA Note safety instruction (XA)
- C CSA General Purpose, CSA C/US
- D FM DIP-AIS Cl.I,II,III Div1 Gr.E-G+CSA DIP Cl.II,III Div.1+2 Gr.E-G, FM: zone 21,22
- F FM IS Cl.I,II,III Div.1 Gr.A-G+NI+CSA IS Cl.I,II,III Div.1+2 Gr.A-G, FM: zone 0,1,2,20,21,22/CSA: zone 0,1,2

- H FM XP-AIS Cl.I Div.1 Gr.A-D+CSA XP Cl.I Div.1+2 Gr.A-D, FM: zone 1,2,21,22/CSA: zone 1,2

- G IEC Ex tD A20/A21
- E IEC Ex iaD A20, IEC Ex ia IIC T6
- S TIIS Ex d(ia) IIC T6
- X NEPSI Ex ia IIC T6
- Z NEPSI Ex d(ia) IIC T6
- 8 NEPSI DIP A20/A21 TA, T* IP66
- Y Special version, TSP-no. to be spec.

Process Connection:

- GG Thread EN10226 R1-1/2
- GJ Thread ANSI NPT1-1/2, d=1.67" sensor
- GK Thread ANSI NPT1-1/4, d=1.38" sensor
- GX Thread ANSI NPT1-1/2, d=1.38" sensor suitable for ISA nozzle
- TD Tri-Clamp ISO2852 DN40-51 (2")
- B3 DN50 PN25/40 A flange EN1092-1 (DIN2527 B)
- BS DN80 PN10/16 A flange EN1092-1 (DIN2527 B)
- BT DN100 PN10/16 A flange EN1092-1 (DIN2527 B)
- AF 2" 150lbs RF flange ANSI B16.5
- AG 3" 150lbs RF flange ANSI B16.5
- AH 4" 150lbs RF flange ANSI B16.5
- KF 10K 50A RF flange JIS B2220
- KG 10K 80A RF flange JIS B2220
- KH 10K 100A RF flange JIS B2220
- YY Special version, TSP-no. to be spec.

Material; Surface Refinement:

- 2 316L; Ra<=3.2um/126uin, w/o
- 5 316L; Ra<=0.76um/30uin, fork electro-polished
- A PTFE>316L; fork coated, reduces build-up, no corrosion safety
- 9 Special version, TSP-no. to be spec.

Overall Length; Bulk Density:

- B xxx mm; min 10g/l
- C xxx mm; min 50g/l
- F xxx inch; min 10g/l
- G xxx inch; min 50g/l
- Y Special version, TSP-no. to be spec.

Electronics; Output:

- 1 FEM51; 2-wire 19-253VAC
- 2 FEM52; 3-wire PNP 10-55VDC
- 4 FEM54; relay DPDT, 19-253VAC/55VDC
- 5 FEM55; 8/16mA, 11-36VDC
- 7 FEM57; 2-wire PFM
- 8 FEM58; NAMUR + test button (H-L signal)
- 9 Special version, TSP-no. to be spec.

Type of Probe:

- A Compact
- D 6m cable > separate housing
- G 6m cable, armoured > separate housing
- E 20ft cable > separate housing
- H 20ft cable, armoured > separate housing
- Y Special version, TSP-no. to be spec.

Housing:

- 1 F16 Polyester IP66/67 NEMA4X + transparent cover
- 3 F17 Alu IP66/67 NEMA4X
- 5 F13 Alu IP66/68 NEMA4X
- 7 F15 316L Hygiene IP66/67 NEMA4X
- H T13 Alu IP66/68 NEMA4X, separate conn. compartment
- Y Special version, TSP-no. to be spec.

Cable Entry:

- 2 Gland M20 (Ex d > thread M20)
- 3 Thread NPT1/2
- 4 Thread G1/2
- 7 Thread NPT3/4
- 9 Special version, TSP-no. to be spec.

Additional Option 1:

- A Not selected
- G Glass cover
- S SIL declaration of conformity
- R Glass cover, SIL declaration of conformity
- Y Special version, TSP-no. to be spec.

Additional Option 2:

- A Not selected
- Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.

Removing tool FTM50/FTM51/FTM52

Usage: Soliphant M, separate housing.

71026213

SPK: FPS

Removing tool FTM50/FTM51/FTM52

Rope shortening kit FTM52

52024632

SPK: FPS

Rope shortening kit FTM52

Sliding sleeve G2 SS, FTM51, press.

Switch point adjustment.

Material: 316L.

Pressurised.

Usage: Soliphant M.

52024631

SPK: FPS

Sliding sleeve G2 SS, FTM51, press.

Sliding sleeve NPT2 SS, FTM51, press.

Switch point adjustment.

Material: 316L.

Pressurised.

Usage: Soliphant M.

52024630

SPK: FPS

Sliding sleeve NPT2 SS, FTM51, press.

Sliding sleeve NPT1-1/2 SS, FTM21,press.

Switch point adjustment.

Material: 316L.

Pressurised.

Usage: FTM21.

52025090

SPK: FPU

Sliding sleeve NPT1-1/2 SS, FTM21,press.

Sliding sleeve NPT1-1/2 SS, FTM21

Switch point adjustment.

Material: 316L.

Usage: FTM21.

52024578

SPK: FPU

Sliding sleeve NPT1-1/2 SS, FTM21

Sliding sleeve R1-1/2 SS, FTM21

Switch point adjustment.

Material: 316L.

Usage: FTM21.

52023313

SPK: FPU

Sliding sleeve R1-1/2 SS, FTM21

Sliding sleeve R1-1/2 SS, FTM21, press.

Switch point adjustment.

Material: 316L.

Pressurised.

Usage: FTM21.

52023312

SPK: FPU

Sliding sleeve R1-1/2 SS, FTM21, press.

Soliphant T FTM21

Point level switch, vibronic.
Rod probe, extension tube.
Application: solids.
Material: 316L.
Grain size <=25mm.
Bulk density >=200g/l.
Application: fine-grained bulk solids.
:: Independent of solids characteristic.
:: No maintenance needed.

FTM21-
52023170

SPK: FPU



Soliphant T FTM21

Approval:

- A Non-hazardous area
- 4 ATEX II 1/3D
- G IEC Ex tD A20/A22
- C CSA General Purpose, CSA C/US
- D FM DIP+CSA DIP Cl.II,III Div.1+2 Gr.E-G, zone 21,22
- N NEPSI DIP A20/A22
- Y Special version, TSP-no. to be spec.

Process Connection:

- A Thread EN10226 R1, 316L
- G Thread EN10226 R1-1/2, 316L
- M Thread ANSI NPT1-1/4, 316L
- N Thread ANSI NPT1-1/2, 316L
- Y Special version, TSP-no. to be spec.

Sensor Length:

- 2 500mm
- 3 1000mm
- 4 1500mm
- 6 20inch
- 7 40inch
- 8 60inch
- 9 Special version, TSP-no. to be spec.

Electronics; Output:

- 2 FEM22; 3-wire PNP 10-45VDC
- 4 FEM24; relay DPDT, 19-253VAC/55VDC
- 9 Special version, TSP-no. to be spec.

Housing; Cable Entry:

- 2 F16 Polyester IP66/67 NEMA4X; M20 gland
- 3 F16 Polyester IP66/67 NEMA4X; NPT1/2 thread
- 4 F16 Polyester IP66/67 NEMA4X; G1/2 thread
- 5 F18 Alu IP66/67 NEMA4X; M20 gland
- 6 F18 Alu IP66/67 NEMA4X; NPT3/4 thread
- 7 F18 Alu IP66/67 NEMA4X; G1/2 thread
- 9 Special version, TSP-no. to be spec.

Additional Option:

- A Basic version
- Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.

Soliphant T FTM20

Point level switch, vibronic.
Rod probe.
Application: solids.
Material: 316L.
Grain size <=25mm.
Bulk density >=200g/l.
Sensor: 225mm/9inch.
Application: fine-grained bulk solids.
:: Independent of solids characteristic.
:: No maintenance needed.

FTM20-
52023168
SPK: FPU



Soliphant T FTM20

Approval:

- A Non-hazardous area
- 4 ATEX II 1/3D
- G IEC Ex tD A20/A22
- C CSA General Purpose, CSA C/US
- D FM DIP+CSA DIP Cl.II,III Div.1+2 Gr.E-G, zone 21,22
- N NEPSI DIP A20/A22
- Y Special version, TSP-no. to be spec.

Process Connection:

- A Thread EN10226 R1, 316L
- G Thread EN10226 R1-1/2, 316L
- M Thread ANSI NPT1-1/4, 316L
- N Thread ANSI NPT1-1/2, 316L
- Y Special version, TSP-no. to be spec.

Electronics; Output:

- 2 FEM22; 3-wire PNP 10-45VDC
- 4 FEM24; relay DPDT, 19-253VAC/55VDC
- 9 Special version, TSP-no. to be spec.

Housing; Cable Entry:

- 2 F16 Polyester IP66/67 NEMA4X; M20 gland
- 3 F16 Polyester IP66/67 NEMA4X; NPT1/2 thread
- 4 F16 Polyester IP66/67 NEMA4X; G1/2 thread
- 5 F18 Alu IP66/67 NEMA4X; M20 gland
- 6 F18 Alu IP66/67 NEMA4X; NPT3/4 thread
- 7 F18 Alu IP66/67 NEMA4X; G1/2 thread
- 9 Special version, TSP-no. to be spec.

Additional Option:

- A Basic version
- Y Special version, TSP-no. to be spec.

>>>Marking: (optional)

- 1 Tagging (TAG), see additional spec.